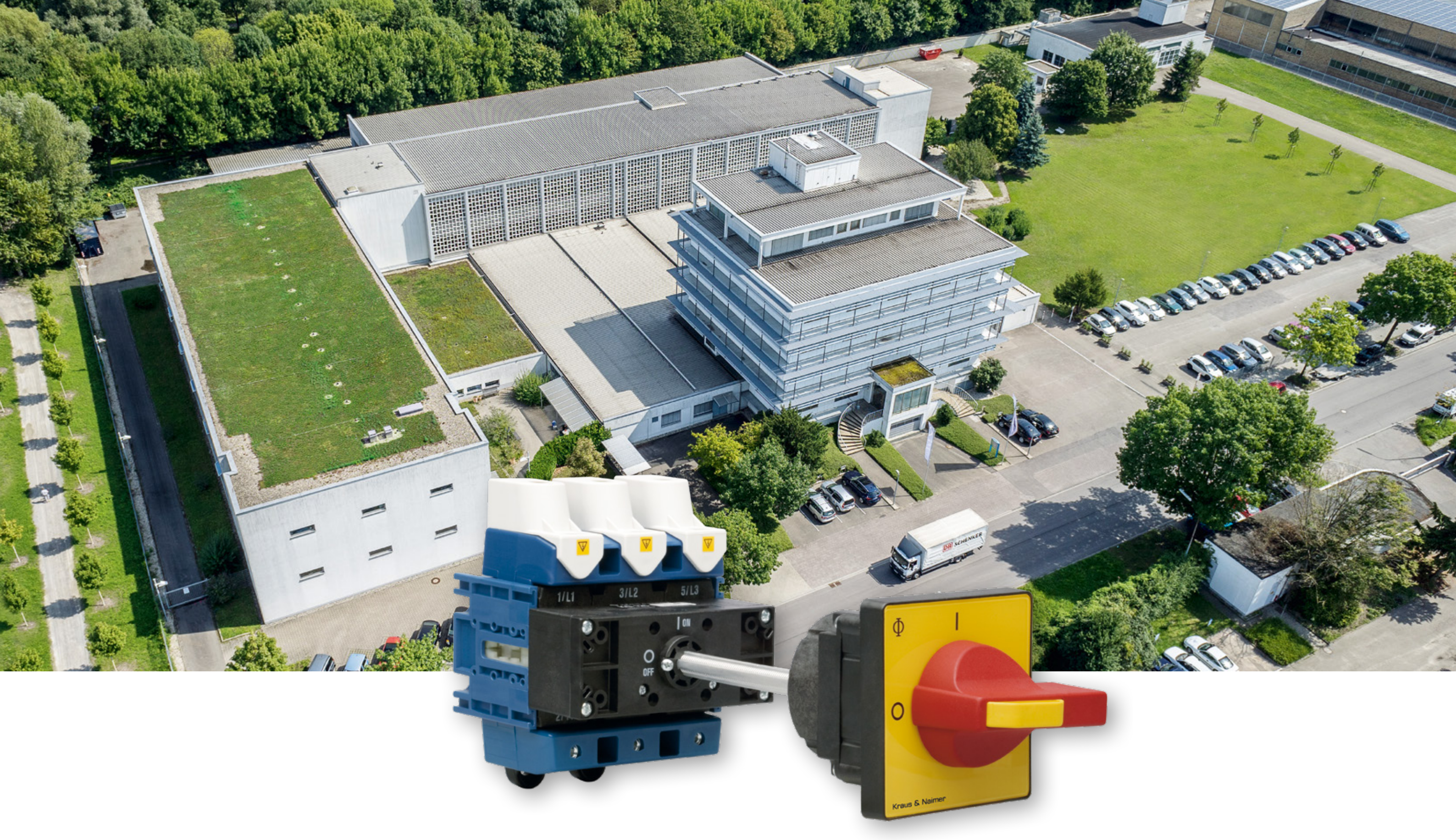
Main Catalog

2025

Kraus & Naimer

Kraus & Naimer



QUALITY & INNOVATION
SINCE 1907.

Since 1907 Kraus & Naimer focused on developing, manufacturing and distributing switches for low voltage applications.

Only consequent specialization enables state of the art products on a highest technical quality level. The world's first programmable cam switch already was branded with the Kraus & Naimer Φ.

Today worldwide recognized and synonym for safe switching solutions and path braking innovation.

In no time Kraus & Naimer emerged to the market leader of cam switches and is moreover one of the leading manufacturer for main disconnects. The wide and global oriented product portfolio OFFers a technical and economical optimized solution for nearly every application.

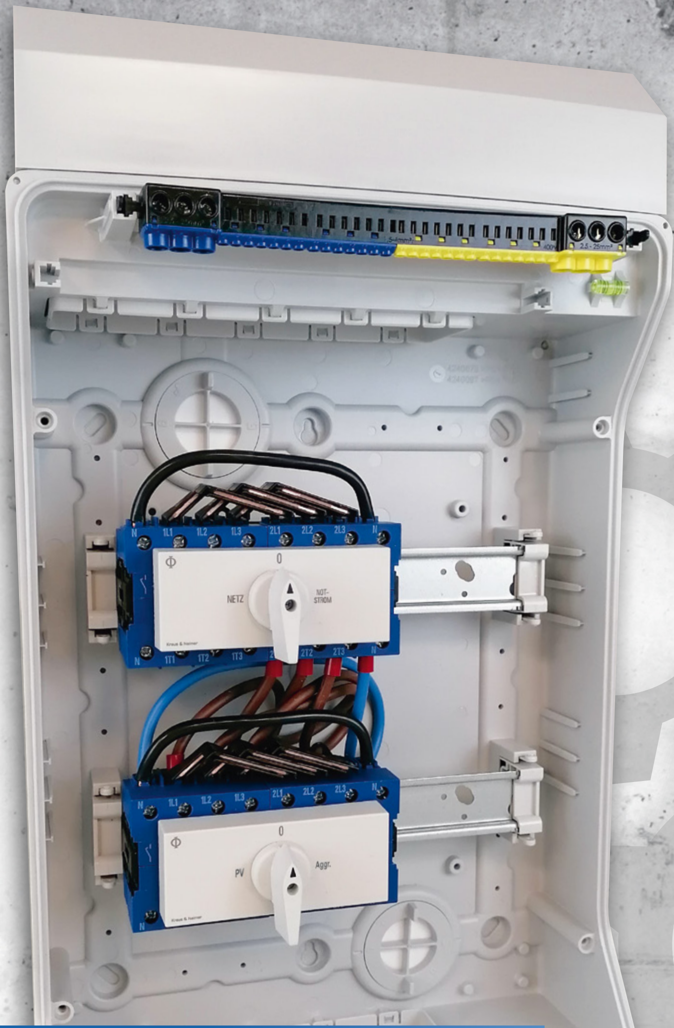
WE CONSULT YOU
INDIVIDUAL & PERSONALLY

Perfect service
is the interface to our customers.

Therefore we invest time and our long-term expertise in consulting you. Our team answers individually and competently your questions.

On page 263 of our main catalog or our website www.krausnaimer.com you will find the contact persons of our branches worldwide.

KRAUS & NAIMER PROJECT SOLUTIONS



If »SPECIAL« is the solution

Development, technical **advice** and **production** from a single source – we are your **specialist for:**

- **Customised switches**
- **Customised handle solutions**
- **Pre-wired switch components**
- **Pre-assembled units**

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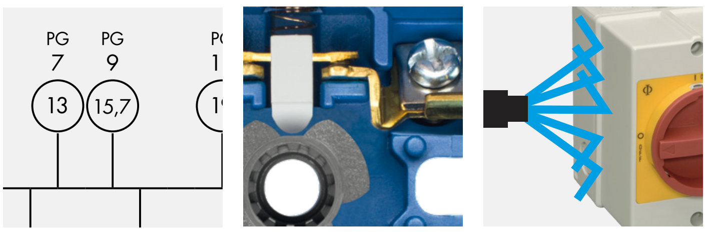
< Click on the chapter to get there. >

CONTENT



Kraus & Naimer Engineering

... instead of additional engineering office*

Planning

Programming

Interface connection

Support

< Back to the catalog directory >

Inventory/System analysis

- existing hardware
- existing systems

Control planning

- Proposal for compatible hardware
- Proposal for conversion/extension of software

Realization

- Implementation or programming support (wherever there's a bottleneck!)

* Der Tipp für kleinere und mittlere Unternehmen, die keinen Programmierer voll auslasten können oder temporäre Unterstützung brauchen.

Kraus & Naimer

- Main Switches
- Safety Switches
- Maintenance Switches

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Next >

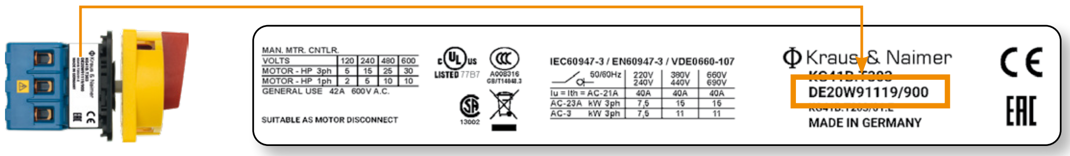
– Example for ordering a replacement switch –

The most important data to know when ordering a switch replacement.

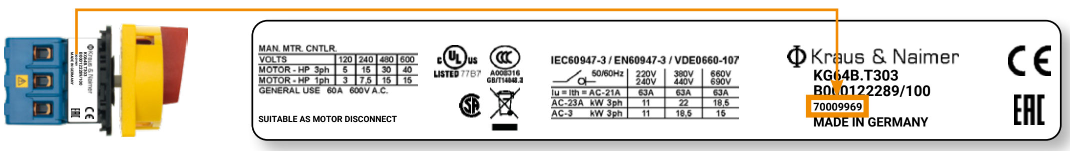
Labels until 2019

1. 2.

Labels until 2022

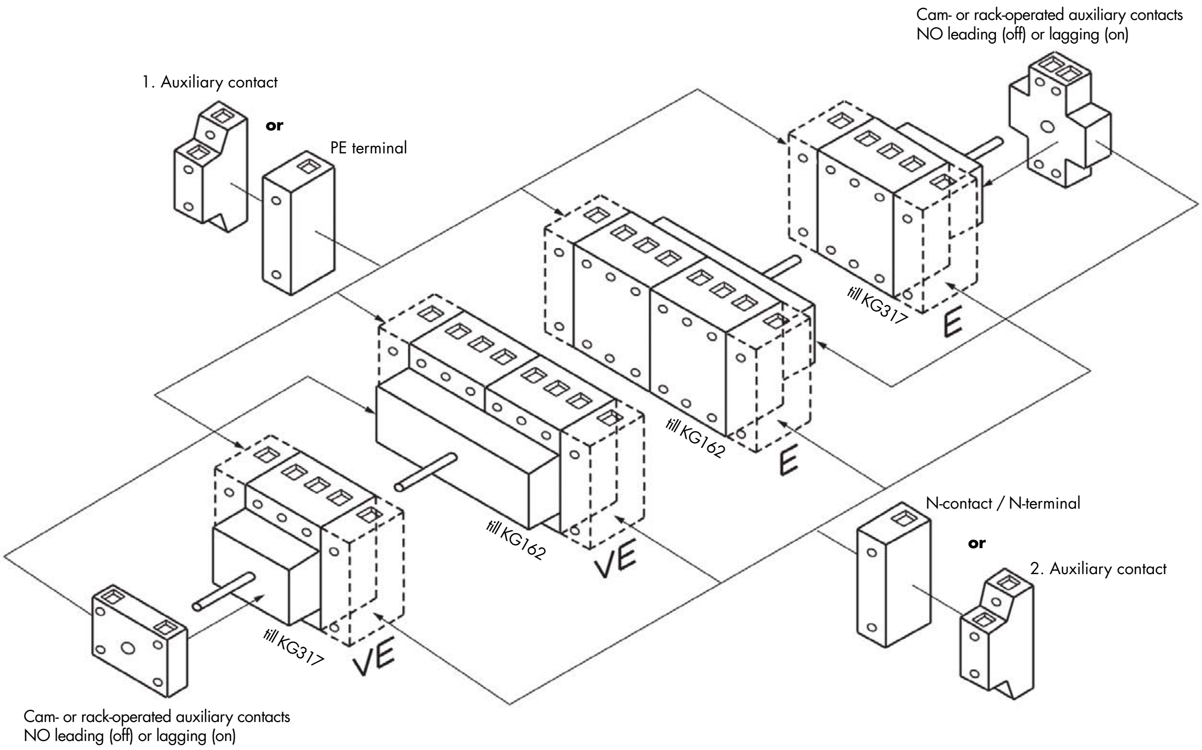


Labels from 2022 on



If the information is incomplete or not available, we kindly ask you to send us detailed photos of the switching device.

The variable block building system KG20-KG317 (not for KG10)



In general terms

The terminals of KG10-KG160 are according to EN 50274, protected against direct contact according to BGV A3 and IP20 (up to size KG64).
In the package content of the Main and Safety Switches, range KG80 to KG160 is one protective cover included and in the range from KG210 to KG315 there are two protective covers included.

Complete items

Accessory

Optional Extras for Customizing (available only in combination with a switch)

MAIN, SAFETY AND MAINTENANCE SWITCH

Four hole panel mounting ▸ 2- and 3-pole, IP66

Similar image

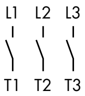
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
2-pole	**230 V**			
20 A	1,5 kW	48 x 48	KG10A.T202/01.E	**70010216**
		64 x 64	KG10B.T202/01.E	**70008894**
3-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T203/01.E	**70023201**
		64 x 64	KG10B.T203/01.E	**70008229**
25 A	7,5 kW	48 x 48	KG20A.T203/01.E	**70014345**
		64 x 64	KG20B.T203/01.E	**70010033**
32 A	11 kW	48 x 48	KG32A.T203/01.E	**70019435**
		64 x 64	KG32B.T203/01.E	**70010162**
40 A	15 kW	48 x 48	KG41.T203/01.E	**70034492**
		64 x 64	KG41B.T203/01.E [1]	**70009968**
63 A	22 kW	48 x 48	KG64.T203/01.E	**70034895**
		64 x 64	KG64B.T203/01.E [1]	**70009969**
80 A	30 kW	64 x 64	KG80.T203/01.E	**70010163**
		88 x 88	KG80C.T203/01.E	**70011802**
100 A	37 kW	64 x 64	KG100.T203/01.E	**70010087**
		88 x 88	KG100C.T203/01.E	**70020909**
125 A	45 kW	88 x 88	KG125.T203/01.E	**70011050**
160 A	55 kW	88 x 88	KG160.T203/01.E	**70010013**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
2-pole	**230 V**			
20 A	1,5 kW	48 x 48	KG10A.T102/01.E	**70008312**
		64 x 64	KG10B.T102/01.E	**70009858**
3-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T103/01.E	**70020513**
		64 x 64	KG10B.T103/01.E	**70008516**
25 A	7,5 kW	48 x 48	KG20A.T103/01.E	**70019418**
		64 x 64	KG20B.T103/01.E	**70010154**
32 A	11 kW	48 x 48	KG32A.T103/01.E	**70021630**
		64 x 64	KG32B.T103/01.E	**70010558**
40 A	15 kW	48 x 48	KG41.T103/01.E	**70026085**
		64 x 64	KG41B.T103/01.E [1]	**70010559**
63 A	22 kW	48 x 48	KG64.T103/01.E	**70020590**
		64 x 64	KG64B.T103/01.E [1]	**70010579**
80 A	30 kW	64 x 64	KG80.T103/01.E	**70010454**
		88 x 88	KG80C.T103/01.E	**70022997**
100 A	37 kW	64 x 64	KG100.T103/01.E	**70010023**
		88 x 88	KG100C.T103/01.E	**70025181**
125 A	45 kW	88 x 88	KG125.T103/01.E	**70012787**
160 A	55 kW	88 x 88	KG160.T103/01.E	**70012793**

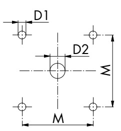
[1] For the successor product, see KA switch

2-pole

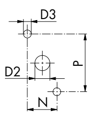
3-pole



4-hole (standard)



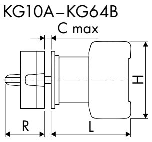
2-hole (alternative) possible if dimensions "N", "P" and "D3" are specified

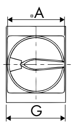


Maximum number of padlocks

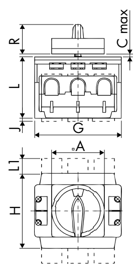
Face plate	Shackle-∅	Number of padlocks
48 x 48	4	2
	8	1
64 x 64	9	3
88 x 88	10	3

KG10A–KG64B





KG80–KG315

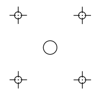


	Switch								Drill hole pattern					
	A	C	G	H	J	L	L1	R	M	N	P	D1	D2	D3
KG10A 2-pole	48	4	48	50		38,7		33	36			5	11-15	
KG10A 3-pole	48	4	48	50		48,2		33	36			5	11-15	
KG10B 2-pole	64	4	48	50		45,7		40,1	48	12,2	30	5	11-15	3,5
KG10B 3-pole	64	4	48	50		55,2		40,1	48	12,2	30	5	11-15	3,5
KG20A, KG32A	48	4	42	54		53,8		33	36			5	10-15	
KG20B, KG32B	64	4	42	54		53,8		40,1	48	12,2	30	5	10-15	3,5
KG41, KG64	48	4	50	64		60,5		33	36			5	10-15	
KG41B	64	4	50	64		60,5		40,1	48	12,2	30	5	10-15	3,5
KG64B	64	4	50	64		60,5		40,1	48	14	37	5	10-15	4,5
KG80, KG100	64	4	70	80	5,5	70,6	26	40,1	48	14	37	5	10-15	4,5
KG80C, KG100C	88	4	70	80	5,5	70,6	26	49,3	68	14	37	6	10-15	4,5
KG125, KG160	88	5,5	112	108		96	22,2	49,3	68			6	13-17	

Information about KG switches with bold terminals please see page 107.

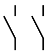
Four hole panel mounting ▸ 2- and 3-pole, IP66

Similar image

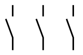


Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
2-pole	**230 V**			
20 A	1,5 kW	48 x 48	KG10A.T202/04.E	**70009916**
		64 x 64	KG10B.T202/04.E	**70026265**
3-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T203/04.E	**70008850**
		64 x 64	KG10B.T203/04.E	**70009181**
25 A	7,5 kW	48 x 48	KG20A.T203/04.E	**70023899**
		64 x 64	KG20B.T203/04.E	**70010859**
32 A	11 kW	48 x 48	KG32A.T203/04.E	**70011557**
		64 x 64	KG32B.T203/04.E	**70019326**
40 A	15 kW	48 x 48	KG41.T203/04.E [2]	**70025658**
		64 x 64	KG41B.T203/04.E [2]	**70011690**
63 A	22 kW	48 x 48	KG64.T203/04.E [2]	**70025423**
		64 x 64	KG64B.T203/04.E [2]	**70010150**
80 A	30 kW	64 x 64	KG80.T203/04.E	**70011198**
		88 x 88	KG80C.T203/04.E	**70011147**
100 A	37 kW	64 x 64	KG100.T203/04.E	**70011577**
		88 x 88	KG100C.T203/04.E	**70025398**
125 A	45 kW	88 x 88	KG125.T203/04.E	**70010707**
160 A	55 kW	88 x 88	KG160.T203/04.E	**70021695**
200 A	75 kW	88 x 88	KG210.T203/05.E	**70029411**
250 A	90 kW	88 x 88	KG250.T203/05.E	**70010014**
315 A	110 kW	88 x 88	KG315.T203/05.E	**70012749**
315 A	132 kW	130 x 130	C316.T203/05.E [1]	**70008723**

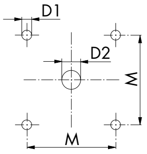
2-pole



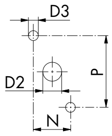
3-pole



4-hole (standard)



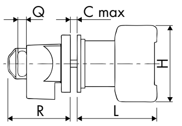
2-hole (alternative) possible if dimensions "N", "P" and "D3" are specified

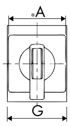


Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
2-pole	**230 V**			
20 A	1,5 kW	48 x 48	KG10A.T102/04.E	**70019686**
		64 x 64	KG10B.T102/04.E	**70025528**
3-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T103/04.E	**70008617**
		64 x 64	KG10B.T103/04.E	**70019408**
25 A	7,5 kW	48 x 48	KG20A.T103/04.E	**70018995**
		64 x 64	KG20B.T103/04.E	**70010158**
32 A	11 kW	48 x 48	KG32A.T103/04.E	**70022359**
		64 x 64	KG32B.T103/04.E	**70010307**
40 A	15 kW	48 x 48	KG41.T103/04.E [2]	**70011701**
		64 x 64	KG41B.T103/04.E [2]	**70010065**
63 A	22 kW	48 x 48	KG64.T103/04.E [2]	**70025139**
		64 x 64	KG64B.T103/04.E [2]	**70010067**
80 A	30 kW	64 x 64	KG80.T103/04.E	**70010984**
		88 x 88	KG80C.T103/04.E	**70009979**
100 A	37 kW	64 x 64	KG100.T103/04.E	**70021701**
		88 x 88	KG100C.T103/04.E	**70019955**
125 A	45 kW	88 x 88	KG125.T103/04.E	**70010141**
160 A	55 kW	88 x 88	KG160.T103/04.E	**70011828**
200 A	75 kW	88 x 88	KG210.T103/05.E	**70022756**
250 A	90 kW	88 x 88	KG250.T103/05.E	**70010872**
315 A	110 kW	88 x 88	KG315.T103/05.E	**70011289**
315 A	132 kW	130 x 130	C316.T103/05.E [1]	**70018706**

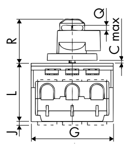
[1] Protection IP40, enhanced protection degree on request
[2] For the successor product, see KA switch

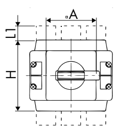
KG10A–KG64B



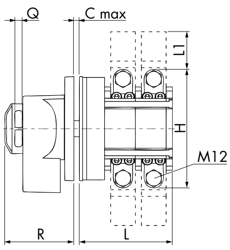


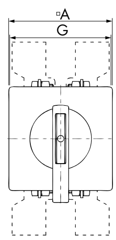
KG80–KG315





C316



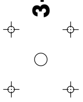


	Switch									Drill hole pattern					
	A	**C**	**G**	**H**	**J**	**L**	**L1**	**Q**	**R**	**M**	**N**	**P**	**D1**	**D2**	**D3**
KG10A 2-polig	48	4	48	50		38,7		7,2	51	36	12,2	30	5	11-15	3,5
KG10A 3-polig	48	4	48	50		48,2		7,2	51	36	12,2	30	5	11-15	3,5
KG10B 2-polig	64	4	48	50		45,7		8,1	58	48			5	11-15	
KG10B 3-polig	64	4	48	50		55,2		8,1	58	48			5	11-15	
KG20A, KG32A	48	4	42	54		53,8		7,2	51	36	12,2	30	5	10-15	3,5
KG20B, KG32B	64	4	42	54		53,8		8,1	58	48			5	10-15	
KG41, KG64	48	4	50	64		60,5		7,2	51	36			5	10-15	
KG41B	64	4	50	64		60,5		8,1	58	48			5	10-15	
KG64B	64	4	50	64		60,5		8,1	58	48	14	37	5	10-15	4,5
KG80, KG100	64	4	70	80	5,5	70,6	26	8,1	58	48	14	37	5	10-15	4,5
KG80C, KG100C	88	4	70	80	5,5	70,6	26	9	73	68			6	10-15	
KG125, KG160	88	5,5	112	108		96	22,2	9	73	68			6	13-17	
KG210, KG250	88	5,5	145	126	6	103	25	9	73	68			6	13-17	
KG315	88	5,5	145	126	6	103	25	9	73	68			6	13-17	
C316	130	7	128	150		117,2	46	9	86,5	104			7	16-20	

Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4
88 x 88	9	4
130 x 130	9	4

Information about KG switches with bold terminals please see page 107.

3-pole + 1NO



Complete items KG series

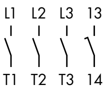
Four hole panel mounting ▸ 3 pole + 1 NO, IP66

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T203/17.E KG10B.T203/17.E	**70023018** **70008477**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T203/17.E KG20B.T203/17.E	**70044966** **70009974**
32 A	11 kW	48 x 48 64 x 64	KG32A.T203/17.E KG32B.T203/17.E	**70048793** **70011115**
40 A	15 kW	64 x 64	KG41B.T203/17.E[1]	**70010455**
63 A	22 kW	64 x 64	KG64B.T203/17.E[1]	**70010456**
80 A	30 kW	64 x 64 88 x 88	KG80.T203/17.E KG80C.T203/17.E	**70010473** **70049130**
100 A	37 kW	64 x 64 88 x 88	KG100.T203/17.E KG100C.T203/17.E	**70019056** **70048660**
125 A	45 kW	88 x 88	KG125.T203/17.E	**70019069**
160 A	55 kW	88 x 88	KG160.T203/17.E	**70019086**

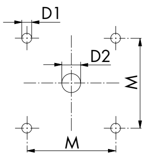
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T103/17.E KG10B.T103/17.E	**70024847** **70008691**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T103/17.E KG20B.T103/17.E	**70044968** **70012803**
32 A	11 kW	48 x 48 64 x 64	KG32A.T103/17.E KG32B.T103/17.E	**70048780** **70012744**
40 A	15 kW	64 x 64	KG41B.T103/17.E[1]	**70012739**
63 A	22 kW	64 x 64	KG64B.T103/17.E[1]	**70012733**
80 A	30 kW	64 x 64 88 x 88	KG80.T103/17.E KG80C.T103/17.E	**70012727** **70036975**
100 A	37 kW	64 x 64 88 x 88	KG100.T103/17.E KG100C.T103/17.E	**70012778** **70030635**
125 A	45 kW	88 x 88	KG125.T103/17.E	**70019062**
160 A	55 kW	88 x 88	KG160.T103/17.E	**70019076**

[1] For the successor product, see KA switch

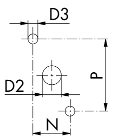


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	4	2
	8	1
64 x 64	9	3
88 x 88	10	3

4-hole (standard)

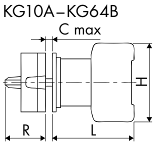


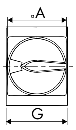
2-hole (alternative)
possible if dimensions "N", "P" and "D3" are specified



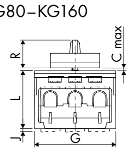
	Drill hole pattern					
	M	N	P	D1	D2	D3
KG10A	36			5	11-15	
KG10B	48	12,2	30	5	11-15	3,5
KG20A, KG32A	36			5	10-15	
KG20B, KG32B	48	12,2	30	5	10-15	3,5
KG41B	48	12,2	30	5	10-15	3,5
KG64B	48	14	37	5	10-15	4,5
KG80, KG100	48	14	37	5	10-15	4,5
KG80C, KG100C	68	14	37	6	10-15	4,5
KG125, KG160	68			6	13-17	

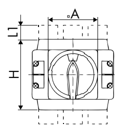
KG10A–KG64B





KG80–KG160





	Switch							
	A	C	G	H	J	L	L1	R
KG10A	48	4	48	50		48,2		33
KG10B	64	4	48	50		55,2		40,1
KG20A, KG32A	48	4	42	54		62,8		33
KG20B, KG32B	64	4	42	54		62,8		40,1
KG41B, KG64B	64	4	50	64		70,5		40,1
KG80, KG100	64	4	70	80	5,5	80,6	26	40,1
KG80C, KG100C	88	4	70	80	5,5	80,6	26	49,3
KG125, KG160	88	5,5	112	108		117	22,2	49,3

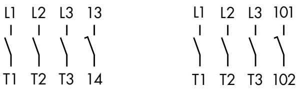
Information about KG switches with bold terminals please see page 107.

Four hole panel mounting ▸ 3 pole + 1 NO, IP66

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+1NO	3 x 400 V			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T203/20.E KG10B.T203/20.E	**70045654** **70035575**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T203/20.E KG20B.T203/20.E	**70048727** **70048748**
32 A	11 kW	48 x 48 64 x 64	KG32A.T203/20.E KG32B.T203/20.E	**70021748** **70037197**
40 A	15 kW	64 x 64	KG41B.T203/20.E	**70038085**
63 A	22 kW	64 x 64	KG64B.T203/20.E	**70038354**
80 A	30 kW	64 x 64 88 x 88	KG80.T203/20.E KG80C.T203/20.E	**70037927** **70035237**
100 A	37 kW	64 x 64 88 x 88	KG100.T203/20.E KG100C.T203/20.E	**70035731** **70035230**
125 A	45 kW	88 x 88	KG125.T203/20.E	**70020095**
160 A	55 kW	88 x 88	KG160.T203/20.E	**70019589**
200 A	75 kW	88 x 88	KG210.T203/21.E	**70025665**
250 A	90 kW	88 x 88	KG250.T203/21.E	**70019118**
315 A	110 kW	88 x 88	KG315.T203/21.E	**70019206**
315 A	132 kW	130 x 130	C316.T203/21.E [1]	**70018713**

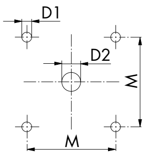
KG C316



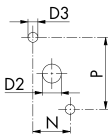
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+1NO	3 x 400 V			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T103/20.E KG10B.T103/20.E	**70025281** **70035933**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T103/20.E KG20B.T103/20.E	**70035231** **70047138**
32 A	11 kW	48 x 48 64 x 64	KG32A.T103/20.E KG32B.T103/20.E	**70048781** **70025283**
40 A	15 kW	64 x 64	KG41B.T103/20.E	**70040488**
63 A	22 kW	64 x 64	KG64B.T103/20.E [2]	**70012732**
80 A	30 kW	64 x 64 88 x 88	KG80.T103/20.E KG80C.T103/20.E	**70038360** **70035232**
100 A	37 kW	64 x 64 88 x 88	KG100.T103/20.E KG100C.T103/20.E	**70034882** **70019407**
125 A	45 kW	88 x 88	KG125.T103/20.E	**70019402**
160 A	55 kW	88 x 88	KG160.T103/20.E	**70019416**
200 A	75 kW	88 x 88	KG210.T103/21.E	**70019593**
250 A	90 kW	88 x 88	KG250.T103/21.E	**70019113**
315 A	110 kW	88 x 88	KG315.T103/21.E	**70019201**
315 A	132 kW	130 x 130	C316.T103/21.E [1]	**70018709**

[1] Protection IP40, enhanced protection degree on request
[2] For the successor product, see KA switch

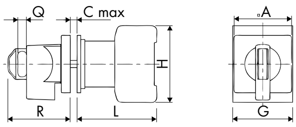
4-hole (standard)



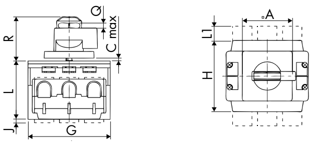
2-hole (alternative) possible if dimensions "N", "P" and "D3" are specified



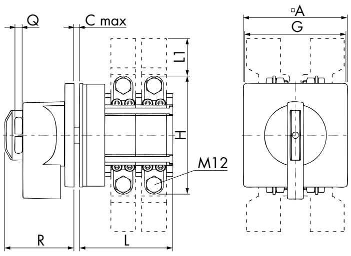
KG10A–KG64B



KG80–KG315



C316



Drill hole pattern	M	N	P	D1	D2	D3
KG10A	36	12,2	30	5	11-15	3,5
KG10B	48			5	11-15	
KG20A, KG32A	36	12,2	30	5	10-15	3,5
KG20B, KG32B	48			5	10-15	
KG41B	48	12,2	30	5	10-15	3,5
KG64B	48	14	37	5	10-15	4,5
KG80, KG100	48	14	37	5	10-15	4,5
KG80C, KG100C	68			6	10-15	
KG125, KG160	68			6	13-17	
KG210, KG250	68			6	13-17	
KG315	68			6	13-17	
C316	104			7	16-20	

Switch	A	C	G	H	J	L	L1	R	Q
KG10A	48	4	48	50		48,2		51	7,2
KG10B	64	4	48	50		55,2		58	8
KG20A, KG32A	48	4	42	54		62,8		51	7,2
KG20B, KG32B	64	4	42	54		62,8		58	8
KG41B, KG64B	64	4	50	64		70,5		58	8
KG80, KG100	64	4	70	80	5,5	80,6	26	58	8
KG80C, KG100C	88	4	70	80	5,5	80,6	26	73	9
KG125, KG160	88	5,5	112	108		117	22,2	73	9
KG210, KG250	88	5,5	145	126	6	124	25	73	9
KG315	88	5,5	145	126	6	124	25	73	9
C316	130	7	128	150		134,2	46	86,5	9,2

Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4
88 x 88	9	4
130 x 130	9	4

Information about KG switches with bold terminals please see page 107.

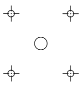
3-pole + 1NO

Complete items KG series

MAIN, SAFETY AND MAINTENANCE SWITCH

Four hole panel mounting ▸ 3 pole + 1 NO + 1 NC, IP66

3-pole + 1NO + 1 NC

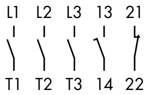


Complete items KG series

Similar image

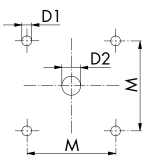
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-polig+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	64 x 64	KG10B.T203/A1.E	**70045504**
25 A	7,5 kW	64 x 64	KG20B.T203/A1.E	**70041172**
32 A	11 kW	64 x 64	KG32B.T203/A1.E	**70040085**
40 A	15 kW	64 x 64	KG41B.T203/A1.E	**70023373**
63 A	22 kW	64 x 64	KG64B.T203/A1.E	**70046505**
80 A	30 kW	64 x 64 88 x 88	KG80.T203/A1.E KG80C.T203/A1.E	**70059690** **70059691**
100 A	37 kW	64 x 64 88 x 88	KG100.T203/A1.E KG100C.T203/A1.E	**70022436** **70023372**
125 A	45 kW	88 x 88	KG125.T203/A1.E	**70027322**
160 A	55 kW	88 x 88	KG160.T203/A1.E	**70059693**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-polig+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	64 x 64	KG10B.T103/A1.E	**70034952**
25 A	7,5 kW	64 x 64	KG20B.T103/A1.E	**70022123**
32 A	11 kW	64 x 64	KG32B.T103/A1.E	**70037967**
40 A	15 kW	64 x 64	KG41B.T103/A1.E	**70028114**
63 A	22 kW	64 x 64	KG64B.T103/A1.E	**70025240**
80 A	30 kW	64 x 64 88 x 88	KG80.T103/A1.E KG80C.T103/A1.E	**70042206** **70059694**
100 A	37 kW	64 x 64 88 x 88	KG100.T103/A1.E KG100C.T103/A1.E	**70049628** **70040112**
125 A	45 kW	88 x 88	KG125.T103/A1.E	**70043736**
160 A	55 kW	88 x 88	KG160.T103/A1.E	**70042205**

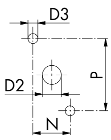


Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
64 x 64	9	3
88 x 88	10	3

4-hole (standard)

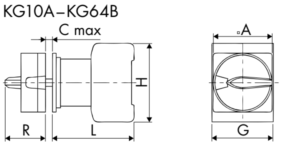


2-hole (alternative)
possible if dimensions "N", "P" and "D3" are specified

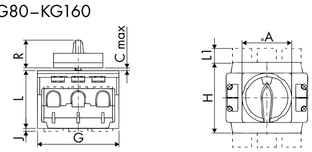


	Drill hole pattern					
	M	**N**	**P**	**D1**	**D2**	**D3**
KG10B	48	12,2	30	5	11-15	3,5
KG20B, KG32B	48	12,2	30	5	10	3,5
KG41B	48	12,2	30	5	10	3,5
KG64B	48	14	37	5	10	3,5
KG80, KG100	48	14	37	5	10	4,5
KG80C, KG100C	68	14	37	6	10	4,5
KG125, KG160	68			6	13	

KG10A–KG64B



KG80–KG160



	Switch							
	A	**C**	**G**	**H**	**J**	**L**	**L1**	**R**
KG10B	64	4	48	50		55,2		40,1
KG20B, KG32B	64	4	42	54		53,8		40,1
KG41B, KG64B	64	4	50	64		60,5		40,1
KG80, KG100	64	4	70	80	5,5	70,6	26	40,1
KG80C, KG100C	88	4	70	80	5,5	70,6	26	49,3
KG125, KG160	88	5,5	112	108		96	22,2	49,3

Information about KG switches with bold terminals please see page 107.

Four hole panel mounting ▸ 3 pole + 1 NO + 1 NC, IP66

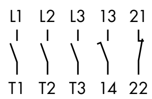
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T203/A2.E KG10B.T203/A2.E	**70042090** **70035576**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T203/A2.E KG20B.T203/A2.E	**70059695** **70059696**
32 A	11 kW	48 x 48 64 x 64	KG32A.T203/A2.E KG32B.T203/A2.E	**70059697** **70054177**
40 A	15 kW	64 x 64	KG41B.T203/A2.E	**70059698**
63 A	22 kW	64 x 64	KG64B.T203/A2.E	**70059699**
80 A	30 kW	64 x 64 88 x 88	KG80.T203/A2.E KG80C.T203/A2.E	**70059700** **70059702**
100 A	37 kW	64 x 64 88 x 88	KG100.T203/A2.E KG100C.T203/A2.E	**70059703** **70059704**
125 A	45 kW	88 x 88	KG125.T203/A2.E	**70059705**
160 A	55 kW	88 x 88	KG160.T203/A2.E	**70059706**
200 A	75 kW	88 x 88	KG210.T203/A3.E	**70059707**
250 A	90 kW	88 x 88	KG250.T203/A3.E	**70059708**
315 A	110 kW	88 x 88	KG315.T203/A3.E	**70059709**
315 A	132 kW	130 x 130	C316.T203/A3.E [1]	**70059710**

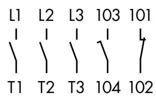
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T103/A2.E KG10B.T103/A2.E	**70030062** **70058602**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T103/A2.E KG20B.T103/A2.E	**70059711** **70052819**
32 A	11 kW	48 x 48 64 x 64	KG32A.T103/A2.E KG32B.T103/A2.E	**70059713** **70052818**
40 A	15 kW	64 x 64	KG41B.T103/A2.E	**70034494**
63 A	22 kW	64 x 64	KG64B.T103/A2.E	**70042434**
80 A	30 kW	64 x 64 88 x 88	KG80.T103/A2.E KG80C.T103/A2.E	**70059714** **70059715**
100 A	37 kW	64 x 64 88 x 88	KG100.T103/A2.E KG100C.T103/A2.E	**70059717** **70059718**
125 A	45 kW	88 x 88	KG125.T103/A2.E	**70051855**
160 A	55 kW	88 x 88	KG160.T103/A2.E	**70050143**
200 A	75 kW	88 x 88	KG210.T103/A3.E	**70023231**
250 A	90 kW	88 x 88	KG250.T103/A3.E	**70050349**
315 A	110 kW	88 x 88	KG315.T103/A3.E	**70058004**
315 A	132 kW	130 x 130	C316.T103/A3.E [1]	**70011129**

[1] C316 Protection IP44, enhanced protection degree on request

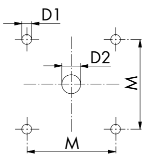
KG



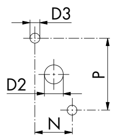
C316



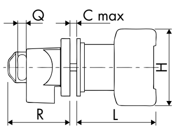
4-hole (standard)



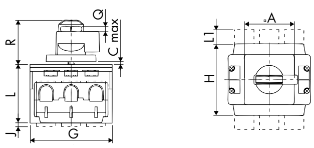
2-hole (alternative)
possible if dimensions "N", "P" and "D3" are specified



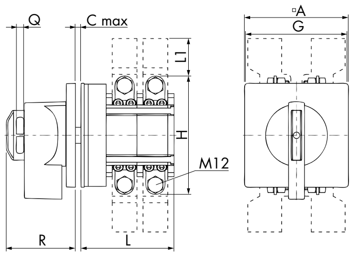
KG10A–KG64B



KG80–KG315



C316



Maximum number of padlocks

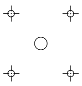
Face plate	Shackle-∅	Number of padlocks
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4
88 x 88	9	4
130 x 130	9	4

	Drill hole pattern					
	M	N	P	D1	D2	D3
KG10B	48	12,2	30	5	11-15	3,5
KG20B, KG32B	48	12,2	30	5	10	3,5
KG41B	48	12,2	30	5	10	3,5
KG64B	48	14	37	5	10	4,5
KG80, KG100	48	14	37	5	10	4,5
KG80C, KG100C	68	14	37	6	10	4,5
KG125, KG160	68			6	13	
KG210, KG250, KG315	68			6	13	
C316	104			7	16	

	Switch								
	A	C	G	H	J	L	L1	R	Q
KG10B	64	4	48	50		55,2		58	8
KG20B, KG32B	64	4	42	54		53,8		58	8
KG41B, KG64B	64	4	50	64		60,5		58	8
KG80, KG100	64	4	70	80	5,5	70,6	26	58	8
KG80C, KG100C	88	4	70	80	5,5	70,6	26	73	9
KG125, KG160	88	5,5	112	108		96	22,2	73	9
KG210, KG250, KG315	88	5,5	145	126	6	124	25	73	9
C316	130	7	128	150		134,2	46	86,5	9,2

Information about KG switches with bold terminals please see page 107.

3-pole + 1NO H-bridge Gold



Complete items KG series

Four hole panel mounting ▸ 3-pole + 1 NO H-bridge Gold, IP66

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
25 A	7,5 kW	64 x 64	KG20B.T203/D-A130.E	**70048749**
32 A	11 kW	64 x 64	On request	
40 A	15 kW	64 x 64	On request	
63 A	22 kW	64 x 64	On request	
80 A	30 kW	64 x 64	KG80.T203/D-A133.E	**70038969**
		88 x 88	On request	
100 A	37 kW	64 x 64	On request	
		88 x 88	On request	
125 A	45 kW	88 x 88	On request	
160 A	55 kW	88 x 88	On request	

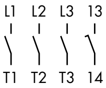
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
25 A	7,5 kW	64 x 64	On request	
32 A	11 kW	64 x 64	On request	
40 A	15 kW	64 x 64	On request	
63 A	22 kW	64 x 64	On request	
80 A	30 kW	64 x 64	KG80.T103/D-W020.E	**70049080**
		88 x 88	On request	
100 A	37 kW	64 x 64	KG100.T103/D-W020.E	**70048631**
		88 x 88	KG100C.T103/D-A098.E	**70048658**
125 A	45 kW	88 x 88	On request	
160 A	55 kW	88 x 88	KG160.T103/D-A076.E	**70048705**

Notice:

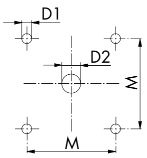
Highest contact reliability by H-bridge design with self-cleaning „cross-wire" contacts. Gold plated for low voltage, low current applications.

Exception: KG20B and KG32B instead H-bridge design equipped with multiple connecting contacts.

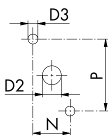
KG



4-hole (standard)



2-hole (alternative)
possible if dimensions "N", "P" and "D3" are specified

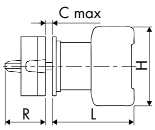


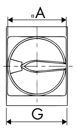
Maximum number of padlocks

Face plate	Shackle-∅	Number of padlocks
64 x 64	9	3
88 x 88	10	3

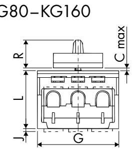
	Drill hole pattern					
	M	**N**	**P**	**D1**	**D2**	**D3**
KG20B, KG32B	48	12,2	30	5	10-15	3,5
KG41B	48	12,2	30	5	10-15	3,5
KG64B	48	14	37	5	10-15	4,5
KG80, KG100	48	14	37	5	10-15	4,5
KG80C, KG100C	68	14	37	6	10-15	4,5
KG125, KG160	68			6	13-17	

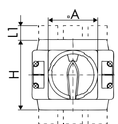
KG20B–KG64B





KG80–KG160





	Switch							
	A	**C**	**G**	**H**	**J**	**L**	**L1**	**R**
KG20B, KG32B	64	4	42	54		62,8		40,1
KG41B, KG64B	64	4	50	64		70,5		40,1
KG80, KG100	64	4	70	80	5,5	80,6	26	40,1
KG80C, KG100C	88	4	70	80	5,5	80,6	26	49,3
KG125, KG160	88	5,5	112	108		117	22,2	49,3

Information about KG switches with bold terminals please see page 107.

Four hole panel mounting ▸ 3-pole + 1 NO H-bridge Gold, IP66

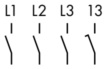
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
25 A	7,5 kW	64 x 64	KG20B.T203/D-A288.E	**70048752**
32 A	11 kW	64 x 64	KG32B.T203/D-A190.E	**70011291**
40 A	15 kW	64 x 64	KG41B.T203/D-A076.E	**70048915**
63 A	22 kW	64 x 64	KG64B.T203/D-A044.E	**70049049**
80 A	30 kW	64 x 64	KG80.T203/D-A025.E	**70049111**
		88 x 88	KG80C.T203/D-A026.E	**70049131**
100 A	37 kW	64 x 64	KG100.T203/D-A020.E	**70048644**
		88 x 88	KG100C.T203/D-A021.E	**70048661**
125 A	45 kW	88 x 88	KG125.T203/D-A016.E	**70048693**
160 A	55 kW	88 x 88	KG160.T203/D-A014.E	**70038405**
200 A	75 kW	88 x 88	KG210.T203/D-A002.E	**70048763**
250 A	90 kW	88 x 88	KG250.T203/D-A006.E	**70048768**
315 A	110 kW	88 x 88	KG315.T203/D-A003.E	**70048774**
315 A	132 kW	130 x 130	C316.T203/D-A008.E [1]	**70048615**

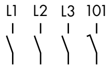
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
25 A	7,5 kW	64 x 64	KG20B.T103/D-A070.E	**70040586**
32 A	11 kW	64 x 64	KG32B.T103/D-A124.E	**70048841**
40 A	15 kW	64 x 64	KG41B.T103/D-A037.E	**70040587**
63 A	22 kW	64 x 64	KG64B.T103/D-A026.E	**70021528**
80 A	30 kW	64 x 64	KG80.T103/D-A017.E	**70035650**
		88 x 88	KG80C.T103/D-A018.E	**70036975**
100 A	37 kW	64 x 64	KG100.T103/D-A012.E	**70038027**
		88 x 88	KG100C.T103/D-A013.E	**70023453**
125 A	45 kW	88 x 88	KG125.T103/D-A010.E	**70029580**
160 A	55 kW	88 x 88	KG160.T103/D-A010.E	**70026845**
200 A	75 kW	88 x 88	KG210.T103/D-A001.E	**70027617**
250 A	90 kW	88 x 88	KG250.T103/D-A012.E	**70029410**
315 A	110 kW	88 x 88	KG315.T103/D-A008.E	**70011144**
315 A	132 kW	130 x 130	C316.T103/D-A010.E [1]	**70048609**

[1] Protection IP40, enhanced protection degree on request

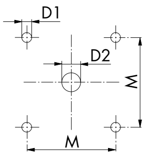
KG



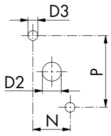
C316



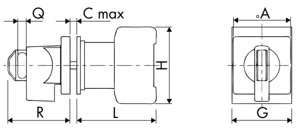
4-hole (standard)



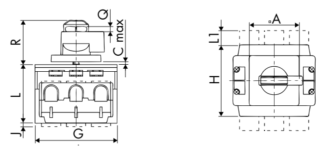
2-hole (alternative)
possible if dimensions "N", "P" and "D3" are specified



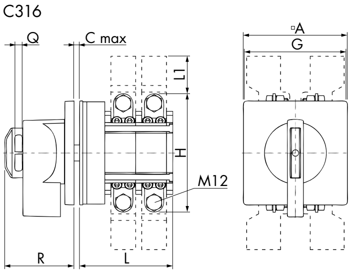
KG20B–KG64B



KG80–KG315



C316



Notice:

Highest contact reliability by H-bridge design with self-cleaning „cross-wire" contacts. Gold plated for low voltage, low current applications.

Exception: KG20B and KG32B instead H-bridge design equipped with multiple connecting contacts, C316 instead H-bridge Gold design equipped with connecting contacts.

	Drill hole pattern					
	M	**N**	**P**	**D1**	**D2**	**D3**
KG20B, KG32B	48			5	10-15	
KG41B	48	12,2	30	5	10-15	3,5
KG64B	48	14	37	5	10-15	4,5
KG80, KG100	48	14	37	5	10-15	4,5
KG80C, KG100C	68			6	10-15	
KG125, KG160	68			6	13-17	
KG210, KG250	68			6	13-17	
KG315	68			6	13-17	
C316	104			7	16-20	

	Switch								
	A	**C**	**G**	**H**	**J**	**L**	**L1**	**R**	**Q**
KG20B, KG32B	64	4	42	54		62,8		58	8
KG41B, KG64B	64	4	50	64		70,5		58	8
KG80, KG100	64	4	70	80	5,5	80,6	26	58	8
KG80C, KG100C	88	4	70	80	5,5	80,6	26	73	9
KG125, KG160	88	5,5	112	108		117	22,2	73	9
KG210, KG250	88	5,5	145	126	6	124	25	73	9
KG315	88	5,5	145	126	6	124	25	73	9
C316	130	7	128	150		134,2	46	86,5	9,2

Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4
88 x 88	9	4
130 x 130	9	4

Information about KG switches with bold terminals please see page 107.

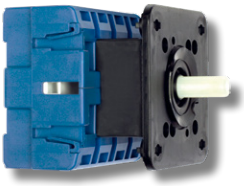
3-pole + 1NO H-bridge Gold

Complete items KG series

3-pole + N + PE

Complete items KG series

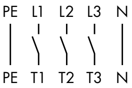
Four hole panel mounting ▸ 3-pole + N + PE, IP66



Similar image

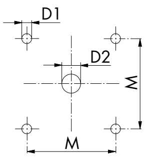
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+N+PE	3 x 400 V			
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T205/01.E KG20B.T205/01.E	**70048733** **70011125**
32 A	11 kW	48 x 48 64 x 64	KG32A.T205/01.E KG32B.T205/01.E	 **70021635**
40 A	15 kW	48 x 48 64 x 64	On request KG41B.T205/01.E	 **70011023**
63 A	22 kW	48 x 48 64 x 64	On request KG64B.T205/01.E	 **70010869**
80 A	30 kW	64 x 64 88 x 88	KG80.T205/01.E KG80C.T205/01.E	**70034803** **70049141**
100 A	37 kW	64 x 64 88 x 88	KG100.T205/01.E KG100C.T205/01.E	**70018841** **70046185**
125 A	45 kW	88 x 88	KG125.T205/01.E	**70010394**
160 A	55 kW	88 x 88	KG160.T205/01.E	**70011692**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+N+PE	3 x 400 V			
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T105/01.E KG20B.T105/01.E	**70048723** **70027625**
32 A	11 kW	48 x 48 64 x 64	KG32A.T105/01.E KG32B.T105/01.E	**70048788** **70039666**
40 A	15 kW	48 x 48 64 x 64	On request KG41B.T105/01.E	 **70027959**
63 A	22 kW	48 x 48 64 x 64	On request KG64B.T105/01.E	 **70019438**
80 A	30 kW	64 x 64 88 x 88	KG80.T105/01.E KG80C.T105/01.E	**70036830** **70049128**
100 A	37 kW	64 x 64 88 x 88	KG100.T105/01.E KG100C.T105/01.E	**70046809** **70028062**
125 A	45 kW	88 x 88	KG125.T105/01.E	**70026627**
160 A	55 kW	88 x 88	KG160.T105/01.E	**70022724**

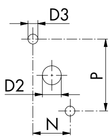


Maximum number of padlocks		
Face plate	**Shackle-Ø**	**Number of padlocks**
48 x 48	4	2
	8	1
64 x 64	9	3
88 x 88	10	3

4-hole (standard)

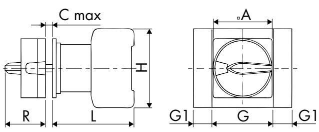


2-hole (alternative)
possible if dimensions "N", "P" and "D3" are specified

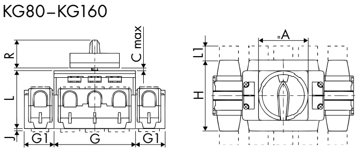


	Drill hole pattern					
	M	**N**	**P**	**D1**	**D2**	**D3**
KG20A, KG32A	36			5	10-15	
KG20B, KG32B	48	12,2	30	5	10-15	3,5
KG41, KG64	36			5	10-15	
KG41B	48	12,2	30	5	10-15	3,5
KG64B	48	14	37	5	10-15	4,5
KG80, KG100	48	14	37	5	10-15	4,5
KG80C, KG100C	68	14	37	6	10-15	4,5
KG125, KG160	68			6	13-17	

KG20A–KG64B



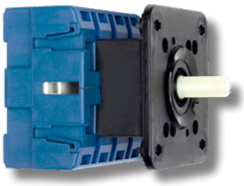
KG80–KG160



	Switch								
	A	**C**	**G**	**G1**	**H**	**J**	**L**	**L1**	**R**
KG20A, KG32A	48	4	42	13,5	54		53,8		33
KG20B, KG32B	64	4	42	13,5	54		53,8		40,1
KG41, KG64	48	4	50	16	64		60,5		33
KG41B, KG64B	64	4	50	16	64		60,5		40,1
KG80, KG100	64	4	70	22	80	5,5	70,6	26	40,1
KG80C, KG100C	88	4	70	22	80	5,5	70,6	26	49,3
KG125, KG160	88	5,5	112	38	108		96	22,2	49,3

Information about KG switches with bold terminals please see page 107.

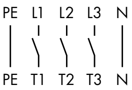
Four hole panel mounting ▸ 3-pole + N + PE, IP66



Similar image

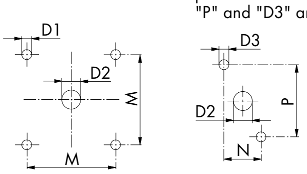
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+N+PE	3 x 400 V			
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T205/04.E KG20B.T205/04.E	**70048735** **70028018**
32 A	11 kW	48 x 48 64 x 64	KG32A.T205/04.E KG32B.T205/04.E	**70048821** **70048866**
40 A	15 kW	48 x 48 64 x 64	KG41.T205/04.E KG41B.T205/04.E	**70048891** **70048920**
63 A	22 kW	48 x 48 64 x 64	KG64.T205/04.E KG64B.T205/04.E	**70049026** **70049055**
80 A	30 kW	64 x 64 88 x 88	KG80.T205/04.E KG80C.T205/04.E	**70034805** **70049147**
100 A	37 kW	64 x 64 88 x 88	KG100.T205/04.E KG100C.T205/04.E	**70048648** **70046791**
125 A	45 kW	88 x 88	KG125.T205/04.E	**70048698**
160 A	55 kW	88 x 88	KG160.T205/04.E	**70034804**
200 A	75 kW	88 x 88	KG210.T205/05.E	**70046273**
250 A	90 kW	88 x 88	KG250.T205/05.E	**70023397**
315 A	110 kW	88 x 88	KG315.T205/05.E	**70048778**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+N+PE	3 x 400 V			
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T105/04.E KG20B.T105/04.E	**70036549** **70027102**
32 A	11 kW	48 x 48 64 x 64	KG32A.T105/04.E KG32B.T105/04.E	**70048789** **70028053**
40 A	15 kW	48 x 48 64 x 64	KG41.T105/04.E KG41B.T105/04.E	**70048881** **70021698**
63 A	22 kW	48 x 48 64 x 64	KG64.T105/04.E KG64B.T105/04.E	**70049003** **70040343**
80 A	30 kW	64 x 64 88 x 88	KG80.T105/04.E KG80C.T105/04.E	**70036539** **70010705**
100 A	37 kW	64 x 64 88 x 88	KG100.T105/04.E KG100C.T105/04.E	**70048634** **70020619**
125 A	45 kW	88 x 88	KG125.T105/04.E	**70021700**
160 A	55 kW	88 x 88	KG160.T105/04.E	**70048707**
200 A	75 kW	88 x 88	KG210.T105/05.E	**70048761**
250 A	90 kW	88 x 88	KG250.T105/05.E	**70048766**
315 A	110 kW	88 x 88	KG315.T105/05.E	**70048773**

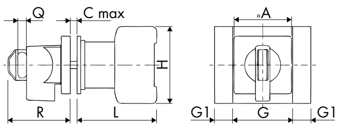


4-hole (standard)

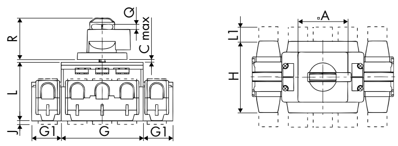
2-hole (alternative) possible if dimensions "N", "P" and "D3" are specified



KG20A–KG64B



KG80–KG315



	Drill holr pattern					
	M	N	P	D1	D2	D3
KG20A, KG32A	36	12,2	30	5	10-15	3,5
KG20B, KG32B	48			5	10-15	
KG41, KG64	36			5	10-15	
KG41B	48			5	10-15	
KG64B	48	14	37	5	10-15	4,5
KG80, KG100	48	14	37	5	10-15	4,5
KG80C, KG100C	68			6	10-15	
KG125, KG160	68			6	13-17	
KG210, KG250	68			6	13-17	
KG315	68			6	13-17	

Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4
88 x 88	9	4
130 x 130	9	4

	Switch									
	A	C	G	G1	H	J	L	L1	R	Q
KG20A, KG32A	48	4	42	13,5	54		53,8		51	7,2
KG20B, KG32B	64	4	42	13,5	54		53,8		58	8
KG41, KG64	48	4	50	16	64		60,5		51	7,2
KG41B, KG64B	64	4	50	16	64		60,5		58	8
KG80, KG100	64	4	70	22	80	5,5	70,6	26	58	8
KG80C, KG100C	88	4	70	22	80	5,5	70,6	26	73	9
KG125, KG160	88	5,5	112	38	108		96	22,2	73	9
KG210, KG250	88	5,5	145	126	6	124	25	73	9	
KG315	88	5,5	145	126	6	124	25	73	9	

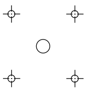
Information about KG switches with bold terminals please see page 107.

3-pole + N + PE

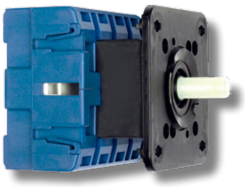
Complete items KG series

Four hole panel mounting ▸ 4-pole, IP66

4-pole



Complete items KG series

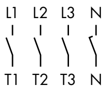


Similar image

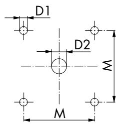
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T204/01.E	**70011454**
		64 x 64	KG10B.T204/01.E	**70009191**
25 A	7,5 kW	48 x 48	KG20A.T204/01.E	**70024808**
		64 x 64	KG20B.T204/01.E	**70011575**
32 A	11 kW	48 x 48	KG32A.T204/01.E	**70026015**
		64 x 64	KG32B.T204/01.E	**70014349**
40 A	15 kW	48 x 48	KG41.T204/01.E	**70010133**
		64 x 64	KG41B.T204/01.E	**70011488**
63 A	22 kW	48 x 48	KG64.T204/01.E	**70027773**
		64 x 64	KG64B.T204/01.E [1]	**70011404**
80 A	30 kW	64 x 64	KG80.T204/01.E	**70009989**
		88 x 88	KG80C.T204/01.E	**70040614**
100 A	37 kW	64 x 64	KG100.T204/01.E	**70011179**
		88 x 88	KG100C.T204/01.E	**70026236**
125 A	45 kW	88 x 88	KG125.T204/01.E	**70010303**
160 A	55 kW	88 x 88	KG160.T204/01.E	**70019089**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T104/01.E	**70021258**
		64 x 64	KG10B.T104/01.E	**70019403**
25 A	7,5 kW	48 x 48	KG20A.T104/01.E	**70024316**
		64 x 64	KG20B.T104/01.E	**70014347**
32 A	11 kW	48 x 48	KG32A.T104/01.E	**70026836**
		64 x 64	KG32B.T104/01.E	**70010693**
40 A	15 kW	48 x 48	KG41.T104/01.E	**70025945**
		64 x 64	KG41B.T104/01.E	**70010927**
63 A	22 kW	48 x 48	KG64.T104/01.E	**70025493**
		64 x 64	KG64B.T104/01.E [1]	**70009910**
80 A	30 kW	64 x 64	KG80.T104/01.E	**70019034**
		88 x 88	KG80C.T104/01.E	**70026620**
100 A	37 kW	64 x 64	KG100.T104/01.E	**70012780**
		88 x 88	KG100C.T104/01.E	**70029810**
125 A	45 kW	88 x 88	KG125.T104/01.E	**70010830**
160 A	55 kW	88 x 88	KG160.T104/01.E	**70019080**

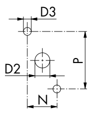
[1] For the successor product, see KA switch



4-hole (standard)

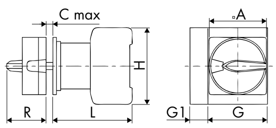


2-hole (alternative)
possible if dimensions "N", "P" and "D3" are specified

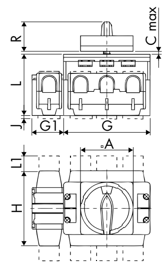


Maximum number of padlocks		
Face plate	**Shackle-∅**	**Numaber of padlocks**
48 x 48	4	2
	8	1
64 x 64	9	3
88 x 88	10	3

KG10A–KG64B



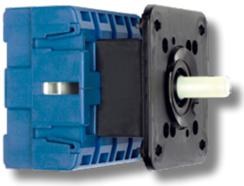
KG80–KG315



	Switch									Drill hole pattern					
	A	**C**	**G**	**G1**	**H**	**J**	**L**	**L1**	**R**	**M**	**N**	**P**	**D1**	**D2**	**D3**
KG10A	48	4	48	0	50		48,2		33	36			5	11-15	
KG10B	64	4	48	0	50		55,2		40,1	48	12,2	30	5	11-15	3,5
KG20A, KG32A	48	4	42	13,5	54		53,8		33	36			5	10-15	
KG20B, KG32B	64	4	42	13,5	54		53,8		40,1	48	12,2	30	5	10-15	3,5
KG41, KG64	48	4	50	16	64		60,5		33	36			5	10-15	
KG41B	64	4	50	16	64		60,5		40,1	48	12,2	30	5	10-15	3,5
KG64B	64	4	50	16	64		60,5		40,1	48	14	37	5	10-15	4,5
KG80, KG100	64	4	70	22	80	5,5	70,6	26	40,1	48	14	37	5	10-15	4,5
KG80C, KG100C	88	4	70	22	80	5,5	70,6	26	49,3	68	14	37	6	10-15	4,5
KG125, KG160	88	5,5	112	38	108		96	22,2	49,3	68			6	13-17	

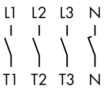
Information about KG switches with bold terminals please see page 107.

Four hole panel mounting ▸ 4-pole, IP66



Similar image

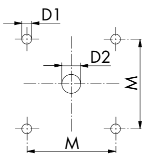
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T204/04.E	**70019401**
		64 x 64	KG10B.T204/04.E	**70030646**
25 A	7,5 kW	48 x 48	KG20A.T204/04.E	**70025401**
		64 x 64	KG20B.T204/04.E	**70010526**
32 A	11 kW	48 x 48	KG32A.T204/04.E	**70023790**
		64 x 64	KG32B.T204/04.E	**70010689**
40 A	15 kW	48 x 48	KG41.T204/04.E	**70019437**
		64 x 64	KG41B.T204/04.E	**70010528**
63 A	22 kW	48 x 48	KG64.T204/04.E	**70011206**
		64 x 64	KG64B.T204/04.E [2]	**70010887**
80 A	30 kW	64 x 64	KG80.T204/04.E	**70010704**
		88 x 88	KG80C.T204/04.E	**70036253**
100 A	37 kW	64 x 64	KG100.T204/04.E	**70017535**
		88 x 88	KG100C.T204/04.E	**70023766**
125 A	45 kW	88 x 88	KG125.T204/04.E	**70021527**
160 A	55 kW	88 x 88	KG160.T204/04.E	**70021693**
200 A	75 kW	88 x 88	KG210.T204/05.E	**70024438**
250 A	90 kW	88 x 88	KG250.T204/05.E	**70012800**
315 A	110 kW	88 x 88	KG315.T204/05.E	**70019216**
315 A	132 kW	130 x 130	C316.T204/05.E [1]	**70018714**



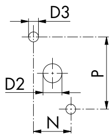
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T104/04.E	**70022852**
		64 x 64	KG10B.T104/04.E	**70048675**
25 A	7,5 kW	48 x 48	KG20A.T104/04.E	**70018969**
		64 x 64	KG20B.T104/04.E	**70010343**
32 A	11 kW	48 x 48	KG32A.T104/04.E	**70010028**
		64 x 64	KG32B.T104/04.E	**70010688**
40 A	15 kW	48 x 48	KG41.T104/04.E	**70010030**
		64 x 64	KG41B.T104/04.E	**70010309**
63 A	22 kW	48 x 48	KG64.T104/04.E	**70011182**
		64 x 64	KG64B.T104/04.E	**70010027**
80 A	30 kW	64 x 64	KG80.T104/04.E	**70022248**
		88 x 88	KG80C.T104/04.E	**70049127**
100 A	37 kW	64 x 64	KG100.T104/04.E	**70010032**
		88 x 88	KG100C.T104/04.E	**70035532**
125 A	45 kW	88 x 88	KG125.T104/04.E	**70010031**
160 A	55 kW	88 x 88	KG160.T104/04.E	**70010029**
200 A	75 kW	88 x 88	KG210.T104/05.E	**70030807**
250 A	90 kW	88 x 88	KG250.T104/05.E	**70019117**
315 A	110 kW	88 x 88	KG315.T104/05.E	**70019205**
315 A	132 kW	130 x 130	C316.T104/05.E [1]	**70018712**

[1] Protection IP40, enhanced protection degree on request
[2] For the successor product, see KA switch

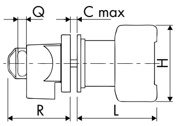
4-hole (standard)

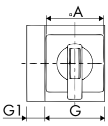


2-hole (alternative)
possible if dimensions "N", "P" and "D3" are specified

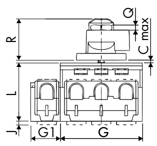


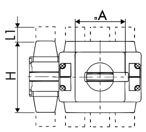
KG10A–KG64B



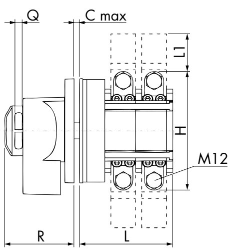


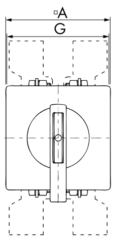
KG80–KG315





C316

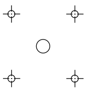




Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4
88 x 88	9	4
130 x 130	9	4

	Switch										Drill hole pattern					
	A	**C**	**G**	**G1**	**H**	**J**	**L**	**L1**	**Q**	**R**	**M**	**N**	**P**	**D1**	**D2**	**D3**
KG10A	48	4	48	0	50		48,2		7,2	51	36	12,2	30	5	11-15	3,5
KG10B	64	4	48	0	50		55,2		8,1	58	48			5	11-15	
KG20A, KG32A	48	4	42	13,5	54		53,8		7,2	51	36	12,2	30	5	10-15	3,5
KG20B, KG32B	64	4	42	13,5	54		53,8		8,1	58	48			5	10-15	
KG41, KG64	48	4	50	16	64		60,5		7,2	51	36			5	10-15	
KG41B	64	4	50	16	64		60,5		8,1	58	48			5	10-15	
KG64B	64	4	50	16	64		60,5		8,1	58	48	14	37	5	10-15	4,5
KG80, KG100	64	4	70	22	80	5,5	70,6	26	8,1	58	48	14	37	5	10-15	4,5
KG80C, KG100C	88	4	70	22	80	5,5	70,6	26	9	73	68			6	10-15	
KG125, KG160	88	5,5	112	38	108		96	22,2	9	73	68			6	13-17	
KG210, KG250	88	5,5	145	52,5	126	6	103	25	9	73	68			6	13-17	
KG315	88	5,5	145	52,5	126	6	103	25	9	73	68			6	13-17	
C316	130	7	128	0	150		117,2	46	9	86,5	104			7	16-20	

Information about KG switches with bold terminals please see page 107.

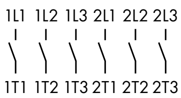


Four hole panel mounting ▸ 6-pole, IP66

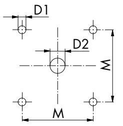
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
6-pole	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T206/01.E	**70019542**
25 A	7,5 kW	64 x 64	KG20B.T206/01.E	**70028040**
32 A	11 kW	64 x 64	KG32B.T206/01.E	**70021923**
40 A	15 kW	64 x 64	KG41B.T206/01.E	**70026483**
63 A	22 kW	64 x 64	KG64B.T206/01.E	**70025054**
80 A	30 kW	64 x 64	KG80.T206/01.E	**70022049**
100 A	37 kW	64 x 64	KG100.T206/01.E	**70027491**
125 A	45 kW	88 x 88	KG125.T206/01.E	**70048702**
160 A	55 kW	88 x 88	KG160.T206/01.E	**70026833**

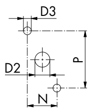
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
6-pole	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T106/01.E	**70026435**
25 A	7,5 kW	64 x 64	KG20B.T106/01.E	**70025492**
32 A	11 kW	64 x 64	KG32B.T106/01.E	**70025396**
40 A	15 kW	64 x 64	KG41B.T106/01.E	**70026281**
63 A	22 kW	64 x 64	KG64B.T106/01.E	**70020622**
80 A	30 kW	64 x 64	KG80.T106/01.E	**70049101**
100 A	37 kW	64 x 64	KG100.T106/01.E	**70035715**
125 A	45 kW	88 x 88	KG125.T106/01.E	**70048347**
160 A	55 kW	88 x 88	KG160.T106/01.E	**On request**



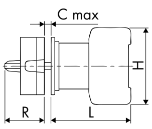
4-hole (standard)



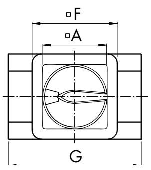
2-hole (alternative) possible if dimensions "N", "P" and "D3" are specified



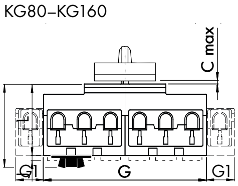
KG10B–KG64B

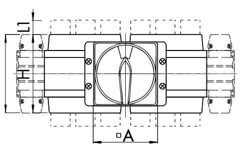


KG10B–KG64B



KG80–KG160





Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	9	3
88 x 88	10	3

	Switch								Drill hole pattern					
	A	C	G	H	J	L	L1	R	M	N	P	D1	D2	D3
KG10B	64	4	48	50		66,7		40,1	48	12,2	30	5	11-15	3,5
KG20B, KG32B	64	4	84	54		61,3		40,1	48	12,2	30	5	10-15	3,5
KG41B	64	4	100	64		66,5		40,1	48	12,2	30	5	10-15	3,5
KG64B	64	4	100	64		66,5		40,1	48	14	37	5	10-15	4,5
KG80, KG100	64	4	140	80	5,5	81,8	26	40,1	48	14	37	5	10-15	4,5
KG125, KG160	88	5,5	224	108		98	22,2	49,3	68			6	13-17	

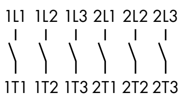
Information about KG switches with bold terminals please see page 107.

Four hole panel mounting ▸ 6-pole, IP66

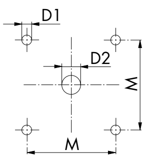
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
6-pole	3 x 400 V			
20 A	5,5 kW	48 x 48	KG10A.T206/04.E	**70009862**
		64 x 64	KG10B.T206/04.E	**70019543**
25 A	7,5 kW	64 x 64	KG20B.T206/04.E	**70019592**
32 A	11 kW	64 x 64	KG32B.T206/04.E	**70010636**
40 A	15 kW	64 x 64	KG41B.T206/04.E	**70044855**
63 A	22 kW	64 x 64	KG64B.T206/04.E	**70049067**
80 A	30 kW	64 x 64	KG80.T206/04.E	**70049126**
100 A	37 kW	64 x 64	KG100.T206/04.E	**70048656**
125 A	45 kW	88 x 88	KG125.T206/04.E	**70048703**
160 A	55 kW	88 x 88	KG160.T206/04.E	**70048716**

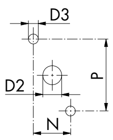
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
6-pole	3 x 400 V			
20 A	5,5 kW	48 x 48	KG10A.T106/04.E	**70048666**
		64 x 64	KG10B.T106/04.E	**70048678**
25 A	7,5 kW	64 x 64	KG20B.T106/04.E	**70038630**
32 A	11 kW	64 x 64	KG32B.T106/04.E	**70039923**
40 A	15 kW	64 x 64	KG41B.T106/04.E	**70045498**
63 A	22 kW	64 x 64	KG64B.T106/04.E	**70045082**
80 A	30 kW	64 x 64	KG80.T106/04.E	**70040853**
100 A	37 kW	64 x 64	KG100.T106/04.E	**70048640**
125 A	45 kW	88 x 88	KG125.T106/04.E	**70048690**
160 A	55 kW	88 x 88	KG160.T106/04.E	**70038130**



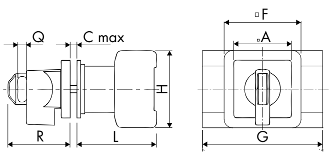
4-hole (standard)



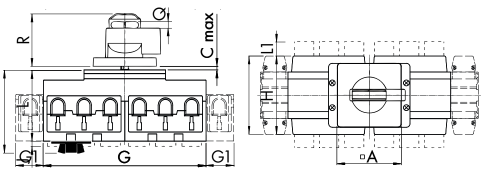
2-hole (alternative) possible if dimensions "N", "P" and "D3" are specified



KG10A–KG64B



KG80–KG315



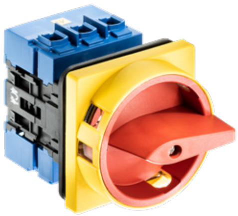
Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4
88 x 88	9	4
130 x 130	9	4

	Switch									Drill hole pattern					
	A	**C**	**G**	**H**	**J**	**L**	**L1**	**Q**	**R**	**M**	**N**	**P**	**D1**	**D2**	**D3**
KG10A	48	4	48	50		57,7		7,2	51	36	12,2	30	5	11-15	3,5
KG10B	64	4	48	50		66,7		8,1	58	48			5	11-15	
KG20B, KG32B	64	4	84	54		61,3		8,1	58	48			5	10-15	
KG41B, KG64B	64	4	100	64		66,5		8,1	58	48	14	37	5	10-15	4,5
KG80, KG100	64	4	140	80	5,5	81,8	26	8,1	58	48	14	37	5	10-15	4,5
KG125, KG160	88	5,5	224	108		98	22,2	9	73	68			6	13-17	

Information about KG switches with bold terminals please see page 107.

MAIN, SAFETY AND MAINTENANCE SWITCH

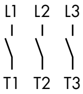
Four hole panel mounting ▸ 3-pole, IP66/67



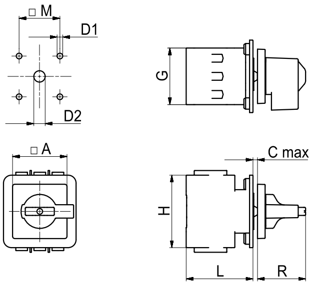
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T203/01.E	**70022738**
		64 x 64	KA40B.T203/01.E	**70012701**
63 A	22 kW	48 x 48	KA63.T203/01.E	**70092709**
		64 x 64	KA63B.T203/01.E	**70012705**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T103/01.E	**70022737**
		64 x 64	KA40B.T103/01.E	**70012699**
63 A	22 kW	48 x 48	KA63.T103/01.E	**70064111**
		64 x 64	KA63B.T103/01.E	**70012703**

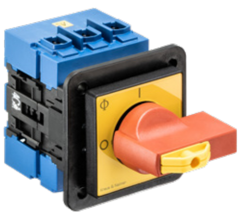


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	7–8	1
64 x 64	7–8	3



Size	D1	D2	M	A	G	H	L	R	Cmax
S0	5	10-15	36	48	50	64	58,9	32,8	4
S1	5	10-15	48	64	50	64	58,9	40	4

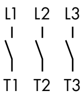
Four hole panel mounting ▸ 3-pole, IP66/67



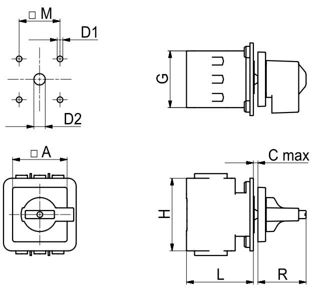
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T203/04.E	**70022731**
		64 x 64	KA40B.T203/04.E	**70031154**
63 A	22 kW	48 x 48	KA63.T203/04.E	**70031153**
		64 x 64	KA63B.T203/04.E	**70031155**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T103/04.E	**70022730**
		64 x 64	KA40B.T103/04.E	**70031128**
63 A	22 kW	48 x 48	KA63.T103/04.E	**70031127**
		64 x 64	KA63B.T103/04.E	**70031104**

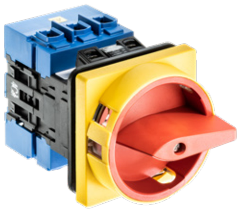


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	3–7	2
64 x 64	4–7,5	3



Size	D1	D2	M	A	G	H	L	R	Cmax
S0	5	10-15	36	48	50	64	58,9	42,4	4
S1	5	10-15	48	64	50	64	58,9	49,8	4

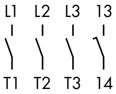
Four hole panel mounting ▸ 3-pole + 1 NO, IP66/67



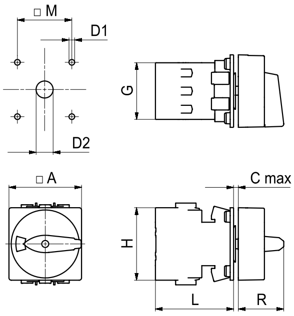
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T203/17.E	**70031156**
63 A	22 kW	64 x 64	KA63B.T203/17.E	**70031157**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T103/17.E	**70031129**
63 A	22 kW	64 x 64	KA63B.T103/17.E	**70031131**



Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7–8	3



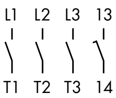
D1	D2	M	A	G	H	L	R	C max
5	10-15	48	64	50	64	68,9	40	4

Four hole panel mounting ▸ 3-pole + 1 NO, IP66/67

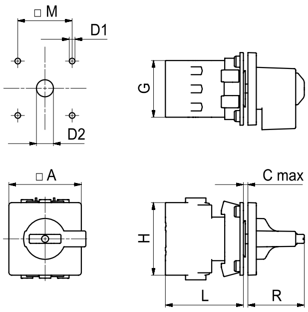
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T203/20.E	**70031158**
63 A	22 kW	64 x 64	KA63B.T203/20.E	**70031159**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T103/20.E	**70031133**
63 A	22 kW	64 x 64	KA63B.T103/20.E	**70024373**

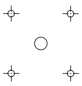


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	4–7,5	3



D1	D2	M	A	G	H	L	R	C max
5	10-15	48	64	50	64	68,9	49,8	4

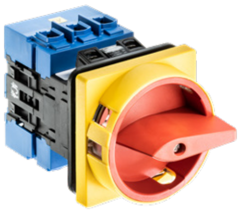
3-polig + 1NO + 1 NC



Complete items KA series

MAIN, SAFETY AND MAINTENANCE SWITCH

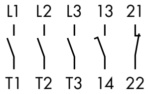
Four hole panel mounting ▸ 3-pole + 1 NO + 1 NC, IP66/67



Similar image

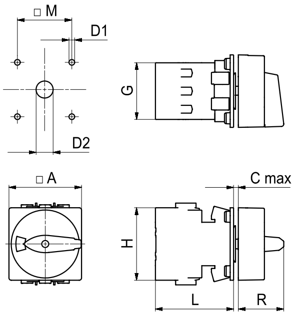
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40B.T203/A1.E	**70024382**
63 A	22 kW	64 x 64	KA63B.T203/A1.E	**70024384**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40B.T103/A1.E	**70024381**
63 A	22 kW	64 x 64	KA63B.T103/A1.E	**70024383**



Maximum number of padlocks

Face plate	Shackle-Ø	Number of padlocks
64 x 64	7–8	3



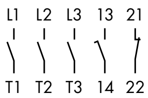
D1	D2	M	A	G	H	L	R	Cmax
5	10-15	48	64	50	64	68,9	40	4

Four hole panel mounting ▸ 3-pole + 1 NO + 1 NC, IP66/67

Similar image

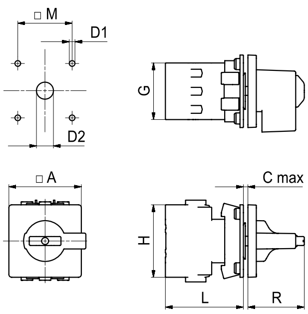
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40B.T203/A2.E	**70032554**
63 A	22 kW	64 x 64	KA63B.T203/A2.E	**70032555**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40B.T103/A2.E	**70032543**
63 A	22 kW	64 x 64	KA63B.T103/A2.E	**70032545**



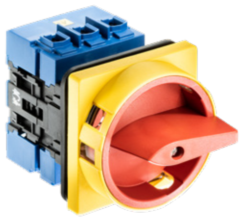
Maximum number of padlocks

Face plate	Shackle-Ø	Number of padlocks
64 x 64	4–7,5	3



D1	D2	M	A	G	H	L	R	Cmax
5	10-15	48	64	50	64	68,9	49,8	4

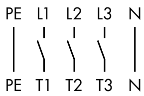
Four hole panel mounting ▸ 3-pole + N + PE, IP66/67

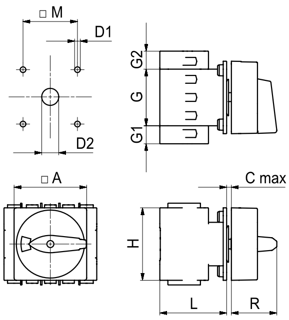


Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+N+PE	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T205/01.E	**70031168**
63 A	22 kW	64 x 64	KA63B.T203/01.E	**70031314**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+N+PE	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T105/01.E	**70026749**
63 A	22 kW	64 x 64	KA63B.T105/01.E	**70031316**

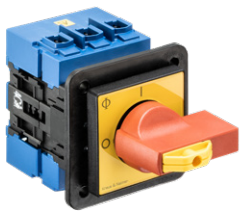




Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7 – 8	3

D1	D2	M	A	G	G1	G2	H	L	R	Cmax
5	10-15	48	64	50	16	16	64	58,9	40	4

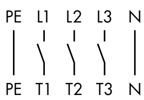
Four hole panel mounting ▸ 3-pole + N + PE, IP66/67

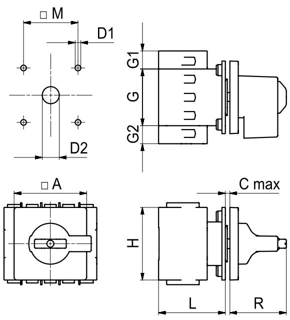


Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+N+PE	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T205/04.E	**70031938**
		64 x 64	KA40B.T205/04.E	**70031172**
63 A	22 kW	48 x 48	KA63.T205/04.E	**70031944**
		64 x 64	KA63B.T205/04.E	**70031945**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+N+PE	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T105/04.E	**70031427**
		64 x 64	KA40B.T105/04.E	**70031152**
63 A	22 kW	48 x 48	KA63.T105/04.E	**70031428**
		64 x 64	KA63B.T105/04.E	**70031332**



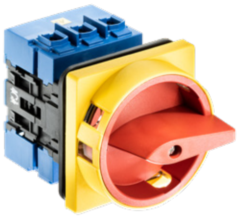


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	3–7	3
64 x 64	4–7,5	3

Size	D1	D2	M	A	G	G1	G2	H	L	R	Cmax
S0	5	10-15	36	48	50	16	16	64	58,9	42,4	4
S1	5	10-15	48	64	50	16	16	64	58,9	49,8	4

MAIN, SAFETY AND MAINTENANCE SWITCH

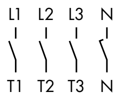
Four hole panel mounting ▸ 4-pole, IP66/67



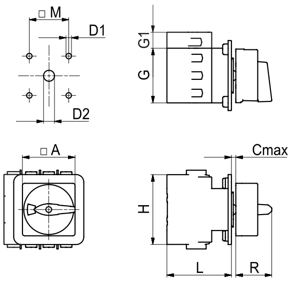
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T204/01.E	**70065366**
		64 x 64	KA40B.T204/01.E	**70012702**
63 A	22 kW	48 x 48	KA63.T204/01.E	**70060400**
		64 x 64	KA63B.T204/01.E	**70012706**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T104/01.E	**70053365**
		64 x 64	KA40B.T104/01.E	**70012700**
63 A	22 kW	48 x 48	KA63.T104/01.E	**70060401**
		64 x 64	KA63B.T104/01.E	**70012704**

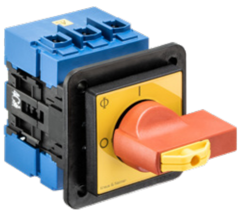


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	7–8	1
64 x 64	7–8	3



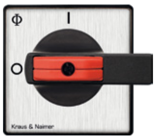
Size	D1	D2	M	A	G	G1	H	L	R	Cmax
S0	5	10-15	36	48	50	16	64	58,9	32,8	4
S1	5	10-15	48	64	50	16	64	58,9	40	4

Four hole panel mounting, Locking device ▸ 4-pole, IP66/67

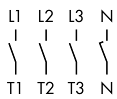


Similar image

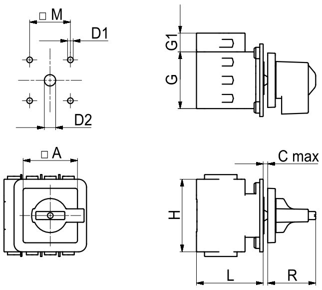
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T204/04.E	**70031163**
		64 x 64	KA40B.T204/04.E	**70053742**
63 A	22 kW	48 x 48	KA63.T204/04.E	**70026750**
		64 x 64	KA63B.T204/04.E	**70054578**



Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	20 kW	48 x 48	KA40.T104/04.E	**70031137**
		64 x 64	KA40B.T104/04.E	**70054082**
63 A	22 kW	48 x 48	KA63.T104/04.E	**70031138**
		64 x 64	KA63B.T104/04.E	**70054083**

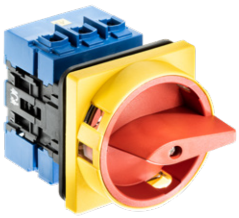


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	3–7	2
64 x 64	4–7,5	3



Size	D1	D2	M	A	G	G1	H	L	R	Cmax
S0	5	10-15	36	48	50	16	64	58,9	42,4	4
S1	5	10-15	48	64	50	16	64	58,9	49,8	4

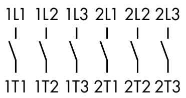
Four hole panel mounting ▸ 6-pole, IP66/67



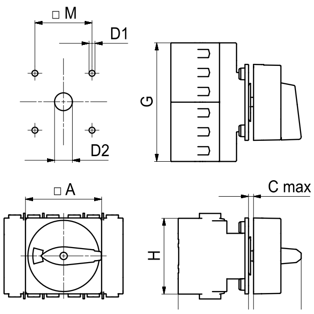
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
6-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T206/01.E	**70063474**
63 A	22 kW	64 x 64	KA63B.T206/01.E	**70063477**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
6-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T106/01.E	**70058161**
63 A	22 kW	64 x 64	KA63B.T106/01.E	**70057089**

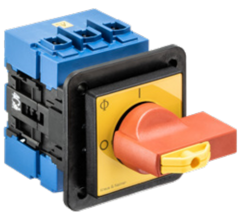


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7–8	3



Size	D1	D2	M	A	G	H	L	R	Cmax
S1	5	10-15	48	64	100	64	64,7	40	4

Four hole panel mounting ▸ 6-pole, IP66/67



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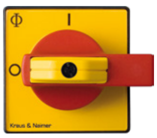
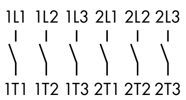
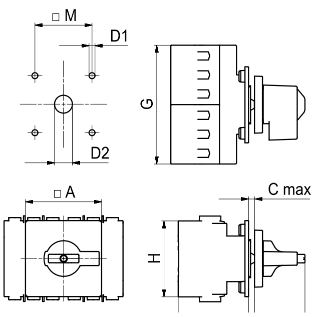


Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
6-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T206/04.E	**70063488**
63 A	22 kW	64 x 64	KA63B.T206/04.E	**70063490**

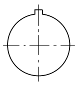
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
6-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T106/04.E	**70063482**
63 A	22 kW	64 x 64	KA63B.T106/04.E	**70063484**



Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	4–7,5	3



Size	D1	D2	M	A	G	H	L	R	Cmax
S1	5	10-15	48	64	100	64	64,7	49,8	4



MAIN, SAFETY AND MAINTENANCE SWITCH

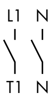
Single hole mounting 22 mm ▸ 2- und 3-pole, IP66, IP69k

Similar image

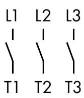
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
2-pole	**230 V**			
20 A	1,5 kW	64 x 64	KG10B.T202/01.FT2	**70008210**
3-pole	**3 x 400 V**			
20 A	5,5 kW	64 x 64	KG10B.T203/01.FT2	**70009897**
25 A	7,5 kW	64 x 64	KG20B.T203/01.FT2	**70019591**
32 A	11 kW	64 x 64	KG32B.T203/01.FT2	**70010745**

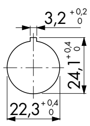
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
2-pole	**230 V**			
20 A	1,5 kW	64 x 64	KG10B.T102/01.FT2	**70003713**
3-pole	**3 x 400 V**			
20 A	5,5 kW	64 x 64	KG10B.T103/01.FT2	**70026456**
25 A	7,5 kW	64 x 64	KG20B.T103/01.FT2	**70010125**
32 A	11 kW	64 x 64	KG32B.T103/01.FT2	**70018783**

2-pole

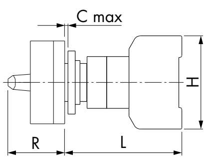


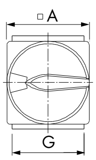
3-pole





Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
64 x 64	9	3



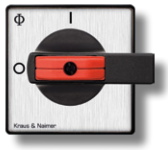


	A	L	G	H	R	C max
KG10B 2-polig	64	64,4	48	50	40,1	6
KG10B 3-polig	64	73,9	48	50	40,1	6
KG20B	64	68,3	42	54	40,1	6
KG32B	64	68,3	42	54	40,1	6

Single hole mounting 22 mm ▸ 2- und 3-pole, IP66, IP69k

Similar image

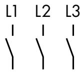
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
2-pole	**230 V**			
20 A	1,5 kW	48 x 48	KG10A.T202/04.FT2	**70006518**
		64 x 64	KG10B.T202/04.FT2	**70021746**
3-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T203/04.FT2	**70011108**
		64 x 64	KG10B.T203/04.FT2	**70011737**
25 A	7,5 kW	48 x 48	KG20A.T203/04.FT2	**70010756**
		64 x 64	KG20B.T203/04.FT2	**70029418**
32 A	11 kW	48 x 48	KG32A.T203/04.FT2	**70010764**
		64 x 64	KG32B.T203/04.FT2	**70025627**

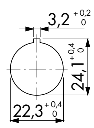


Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
2-pole	**230 V**			
20 A	1,5 kW	48 x 48	KG10A.T102/04.FT2	**70011009**
		64 x 64	KG10B.T102/04.FT2	**70028199**
3-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T103/04.FT2	**70018831**
		64 x 64	KG10B.T103/04.FT2	**70040963**
25 A	7,5 kW	48 x 48	KG20A.T103/04.FT2	**70012804**
		64 x 64	KG20B.T103/04.FT2	**70029420**
32 A	11 kW	48 x 48	KG32A.T103/04.FT2	**70010818**
		64 x 64	KG32B.T103/04.FT2	**70026837**

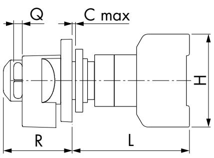
2-pole

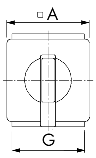
3-pole





Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4

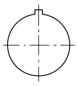




	A	L	G	H	R	Q	C max
KG10A 2-polig	48	57,4	48	50	52	7,2	6
KG10A 3-polig	48	66,9	48	50	52	7,2	6
KG10B 2-polig	64	64,4	48	50	58	8	6
KG10B 3-polig	64	73,9	48	50	58	8	6
KG20A, KG32A	48	68,3	42	54	52	7,2	6
KG20B, KG32B	64	68,3	42	54	58	8	6

Single hole mounting 22 mm ‣ 3-pole + 1 NO, IP66, IP69k

3-pole + 1N O

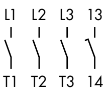


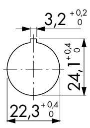
Complete items KG series

Similar image

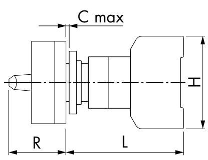
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T203/17.FT2	**70023423**
25 A	7,5 kW	64 x 64	KG20B.T203/17.FT2	**70026057**
32 A	11 kW	64 x 64	KG32B.T203/17.FT2	**70026354**

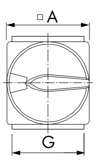
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T103/17.FT2	**70030648**
25 A	7,5 kW	64 x 64	KG20B.T103/17.FT2	**70038254**
32 A	11 kW	64 x 64	KG32B.T103/17.FT2	**70048836**





Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	4	2
	8	1
64 x 64	9	3





	A	C	G	H	L	R
KG10A	48	6	48	50	66,9	
KG10B	64	6	48	50	73,9	40,1
KG20A, KG32A	48	6	42	54	77,3	
KG20B, KG32B	64	6	42	54	77,3	40,1

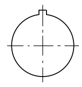
Single hole mounting 22 mm ‣ 3-pole + 1 NO, IP66, IP69k

Similar image

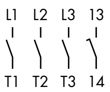
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	**3 x 400 V**			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T203/20.FT2 KG10B.T203/20.FT2	**70046055** **70048679**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T203/20.FT2 KG20B.T203/20.FT2	**70029050** **70029417**
32 A	11 kW	48 x 48 64 x 64	KG32A.T203/20.FT2 KG32B.T203/20.FT2	**70030900** **70045899**

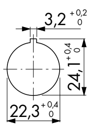
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	**3 x 400 V**			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T103/20.FT2 KG10B.T103/20.FT2	**70021747** **70048672**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T103/20.FT2 KG20B.T103/20.FT2	**70029578** **70048740**
32 A	11 kW	48 x 48 64 x 64	KG32A.T103/20.FT2 KG32B.T103/20.FT2	**70029409** **70036363**

3-pole + 1N O

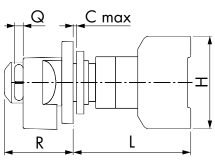


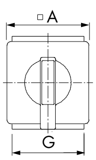
Complete items KG series





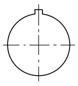
Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4





	A	C	G	H	L	R	Q
KG10A	48	6	48	50	66,9	51	7,2
KG10B	64	6	48	50	73,9	58	8
KG20A, KG32A	48	6	42	54	77,3	51	7,2
KG20B, KG32B	64	6	42	54	77,3	58	8

3-pole +
1NO + 1 NC



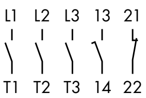
Complete items KG series

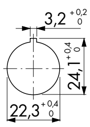
Single hole mounting 22 mm ▸ 3-pole + 1 NO + 1 NC, IP66, IP69k

Similar image

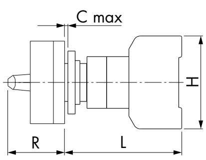
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	64 x 64	KG10B.T203/A1.FT2	**70026650**
25 A	7,5 kW	64 x 64	KG20B.T203/A1.FT2	**70038372**
32 A	11 kW	64 x 64	KG32B.T203/A1.FT2	**70059745**

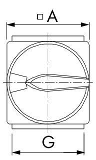
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	64 x 64	KG10B.T103/A1.FT2	**70048079**
25 A	7,5 kW	64 x 64	KG20B.T103/A1.FT2	**70037966**
32 A	11 kW	64 x 64	KG32B.T103/A1.FT2	**70057087**





Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	9	3



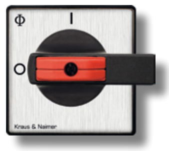


	A	C	G	H	L	R
KG10B	64	6	48	50	75,6	40,1
KG20B, KG32B	64	6	42	54	77,3	40,1

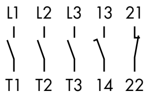
Single hole mounting 22 mm ▸ 3-pole + 1 NO + 1 NC, IP66, IP69k

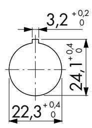
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	**3 x 380 V/440 V**			
20 A	5,5 kW	48 x 48	KG10A.T203/A2.FT2	**70052096**
		64 x 64	KG10B.T203/A2.FT2	**70059746**
25 A	7,5 kW	48 x 48	KG20A.T203/A2.FT2	**70059747**
		64 x 64	KG20B.T203/A2.FT2	**70059748**
32 A	11 kW	48 x 48	KG32A.T203/A2.FT2	**70059749**
		64 x 64	KG32B.T203/A2.FT2	**70059750**

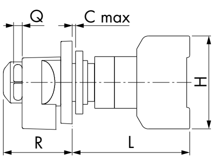


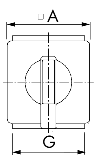
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	**3 x 380 V/440 V**			
20 A	5,5 kW	48 x 48	KG10A.T103/A2.FT2	**70040077**
		64 x 64	KG10B.T103/A2.FT2	**70059751**
25 A	7,5 kW	48 x 48	KG20A.T103/A2.FT2	**70059752**
		64 x 64	KG20B.T103/A2.FT2	**70059753**
32 A	11 kW	48 x 48	KG32A.T103/A2.FT2	**70059754**
		64 x 64	KG32B.T103/A2.FT2	**70048294**





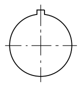
Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4





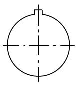
	A	C	G	H	L	R	Q
KG10A	48	6	48	50	75,6	51	7,2
KG10B	64	6	48	50	75,6	58	8
KG20A, KG32A	48	6	42	54	77,3	51	7,2
KG20B, KG32B	64	6	42	54	77,3	58	8

3-pole + 1NO + 1 NC



Complete items KG series

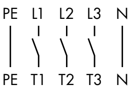
Single hole mounting 22 mm ▸ 3-pole + N + PE, IP66, IP69k

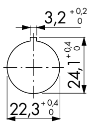


Similar image

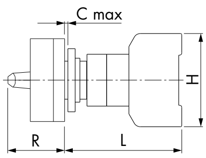
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ N+PE	3 x 400 V			
25 A	7,5 kW	64 x 64	KG20B.T205/01.FT2	**70029416**
32 A	11 kW	64 x 64	KG32B.T205/01.FT2	**70040341**

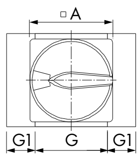
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ N+PE	3 x 400 V			
25 A	7,5 kW	64 x 64	KG20B.T105/01.FT2	**70036614**
32 A	11 kW	64 x 64	KG32B.T105/01.FT2	**70048845**





Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	4	2
	8	1
64 x 64	9	3





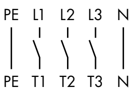
	A	C	G	G1	H	L	R
KG20A, KG32A	48	6	42	13,5	54	68,3	
KG20B, KG32B	64	6	42	13,5	54	68,3	40,1

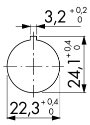
Single hole mounting 22 mm ▸ 3-pole + N + PE, IP66, IP69k

Similar image

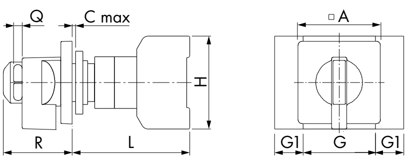
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ N+PE	3 x 400 V			
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T205/04.FT2 KG20B.T205/04.FT2	**70046261** **70046262**
32 A	11 kW	48 x 48 64 x 64	KG32A.T205/04.FT2 KG32B.T205/04.FT2	**70048822** **70048867**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ N+PE	3 x 400 V			
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T105/04.FT2 KG20B.T105/04.FT2	**70035651** **70044965**
32 A	11 kW	48 x 48 64 x 64	KG32A.T105/04.FT2 KG32B.T105/04.FT2	**70038423** **70029918**





Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4



	A	C	G	G1	H	L	R	Q
KG20A, KG32A	48	6	42	13,5	54	68,3	51	7,2
KG20B, KG32B	64	6	42	13,5	54	68,3	58	8

3-pole + N + PE

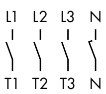
Complete items KG series

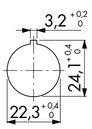
Single hole mounting 22 mm ▸ 4-pole, IP66, IP69k

Similar image

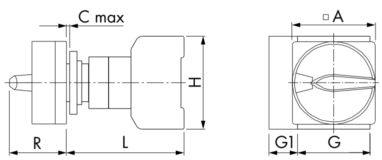
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T204/01.FT2	**70027991**
25 A	7,5 kW	64 x 64	KG20B.T204/01.FT2	**70027375**
32 A	11 kW	64 x 64	KG32B.T204/01.FT2	**70029031**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T104/01.FT2	**70038552**
25 A	7,5 kW	64 x 64	KG20B.T104/01.FT2	**70030805**
32 A	11 kW	64 x 64	KG32B.T104/01.FT2	**70010457**

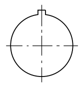




Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	9	3



	A	L	G	G1	H	R	C max
KG10B	64	73,9	48	0	50	40,1	6
KG20B	64	68,3	42	13,5	54	40,1	6
KG32B	64	68,3	42	13,5	54	40,1	6

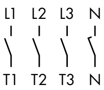


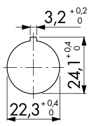
Single hole mounting 22 mm ▸ 4-pole, IP66, IP69k

Similar image

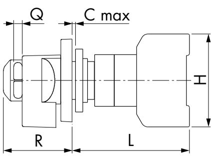
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T204/04.FT2	**70011426**
		64 x 64	KG10B.T204/04.FT2	**70048681**
25 A	7,5 kW	48 x 48	KG20A.T204/04.FT2	**70025953**
		64 x 64	KG20B.T204/04.FT2	**70027234**
32 A	11 kW	48 x 48	KG32A.T204/04.FT2	**70021516**
		64 x 64	KG32B.T204/04.FT2	**70029058**

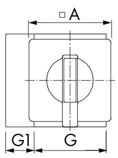
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
20 A	5,5 kW	48 x 48	KG10A.T104/04.FT2	**70026240**
		64 x 64	KG10B.T104/04.FT2	**70040967**
25 A	7,5 kW	48 x 48	KG20A.T104/04.FT2	**70022581**
		64 x 64	KG20B.T104/04.FT2	**70029419**
32 A	11 kW	48 x 48	KG32A.T104/04.FT2	**70026477**
		64 x 64	KG32B.T104/04.FT2	**70039777**



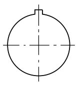


Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4

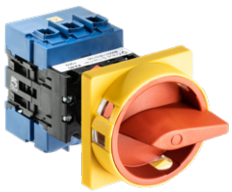




	A	L	G	G1	H	R	Q	C max
KG10A	48	66,9	48	0	50	52	7,2	6
KG10B	64	73,9	48	0	50	58	8	6
KG20A, KG32A	48	68,3	42	13,5	54	52	7,2	6
KG20B, KG32B	64	68,3	42	13,5	54	58	8	6



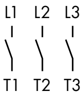
Single hole mounting 22 mm ▸ 3-pole, IP66/67/69k



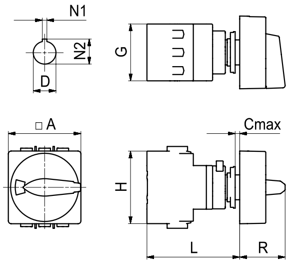
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40.T203/01.FH3	**70044922**
63 A	22 kW	64 x 64	KA63.T203/01.FH3	**70044924**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40.T103/01.FH3	**70044921**
63 A	22 kW	64 x 64	KA63.T103/01.FH3	**70044923**



Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7 – 8	3



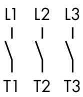
N1	N2	D	A	G	H	L	R	Cmax
3,2	24,1	22,3	64	50	64	81,8	40	6

Single hole mounting 22 mm ▸ 3-pole, IP66/67/69k

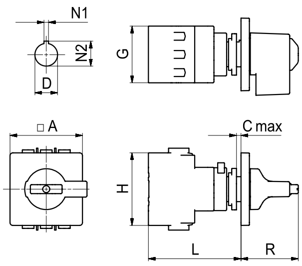
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40.T203/04.FH3	**70032173**
63 A	22 kW	64 x 64	KA63.T203/04.FH3	**70031935**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40.T103/04.FH3	**70031917**
63 A	22 kW	64 x 64	KA63.T103/04.FH3	**70031928**

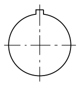


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	3 – 7	2

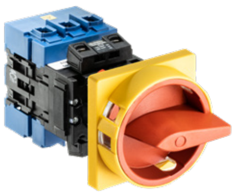


N1	N2	D	A	G	H	L	R	Cmax
3,2	24,1	22,3	64	50	64	81,8	50,6	4

3-pole + 1 NO



Single hole mounting 22 mm ▸ 3-pole + 1 NO, IP66/67/69k



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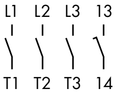
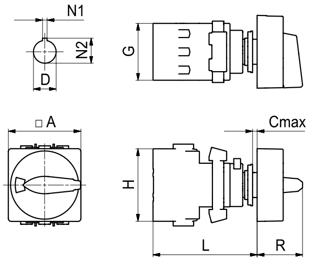
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40.T203/17.FH3	**70108674**
63 A	22 kW	64 x 64	KA63.T203/17.FH3	**70108675**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40.T103/17.FH3	**70108690**
63 A	22 kW	64 x 64	KA63.T103/17.FH3	**70108691**

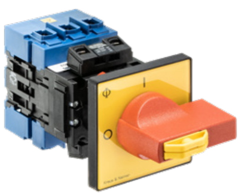


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7 – 8	3



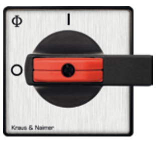
N1	N2	D	A	G	H	L	R	Cmax
3,2	24,1	22,3	64	50	64	91,8	40	6

Single hole mounting 22 mm ▸ 3-pole + 1 NO, IP66/67/69k

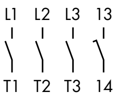


Similar image

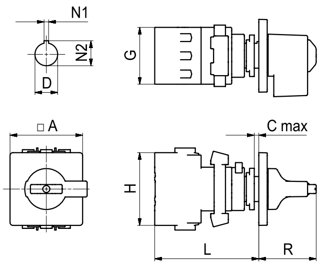
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40.T203/20.FH3	**70108680**
63 A	22 kW	64 x 64	KA63.T203/20.FH3	**70108681**



Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art.-Nr.
3-pole + 1NO	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40.T103/20.FH3	**70108696**
63 A	22 kW	64 x 64	KA63.T103/20.FH3	**70108697**



Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	3 – 7	2



N1	N2	D	A	G	H	L	R	Cmax
3,2	24,1	22,3	64	50	64	91,8	50,6	6

Complete items KA series

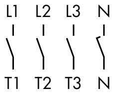
MAIN, SAFETY AND MAINTENANCE SWITCH

Single hole mounting 22 mm ▸ 4-pole, IP66/67/69k

Similar image

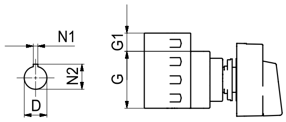
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
40 A	20 kW	64 x 64	KA40.T204/01.FH3	**70101355**
63 A	22 kW	64 x 64	KA63.T204/01.FH3	**70107602**

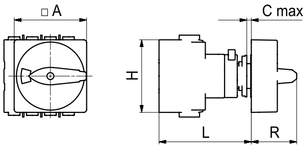
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
40 A	20 kW	64 x 64	KA40.T104/01.FH3	**70107374**
63 A	22 kW	64 x 64	KA63.T104/01.FH3	**70107601**



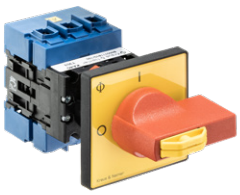
Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
64 x 64	7 – 8	3

N1	N2	D	A	G	G1	H	L	R	Cmax
3,2	24,1	22,3	64	50	16	64	81,8	40	6



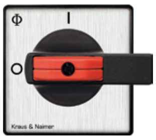


Single hole mounting 22 mm ▸ 4-pole, IP66/67/69k

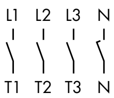


Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
40 A	20 kW	64 x 64	KA40.T204/04.FH3	**70071084**
63 A	22 kW	64 x 64	KA63.T204/04.FH3	**70092826**

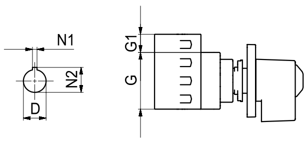


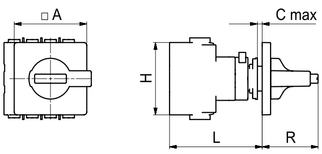
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
40 A	20 kW	64 x 64	KA40.T104/04.FH3	**70071082**
63 A	22 kW	64 x 64	KA63.T104/04.FH3	**70092825**



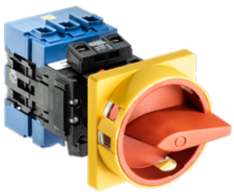
Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
64 x 64	3 – 7	2

N1	N2	D	A	G	G1	H	L	R	Cmax
3,2	24,1	22,3	64	50	16	64	81,8	50,6	6





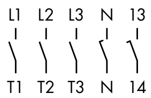
Single hole mounting 22 mm ▸ 4-pole + 1 NO, IP66/67/69k



Similar image

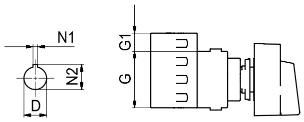
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole + 1NO	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40.T204/17.FH3	**70108720**
63 A	22 kW	64 x 64	KA63.T204/17.FH3	**70108721**

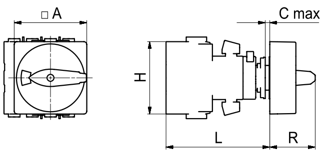
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole + 1NO	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40.T104/17.FH3	**70108740**
63 A	22 kW	64 x 64	KA63.T104/17.FH3	**70108741**



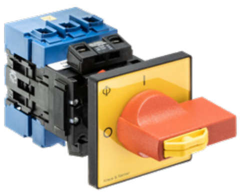
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7 – 8	3

N1	N2	D	A	G	G1	H	L	R	C max
3,2	24,1	22,3	64	50	16	64	91,8	40	6





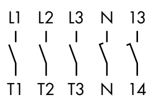
Single hole mounting 22 mm ▸ 4-pole + 1 NO, IP66/67/69k



Similar image

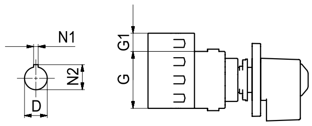
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole + 1NO	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40.T204/20.FH3	**70092937**
63 A	22 kW	64 x 64	KA63.T204/20.FH3	**70092939**

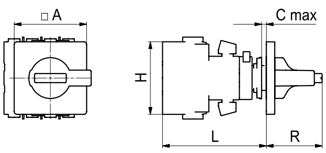
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole + 1NO	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40.T104/20.FH3	**70092936**
63 A	22 kW	64 x 64	KA63.T104/20.FH3	**70092938**



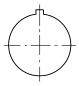
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	3 – 7	2

N1	N2	D	A	G	G1	H	L	R	C max
3,2	24,1	22,3	64	50	16	64	91,8	50,6	6





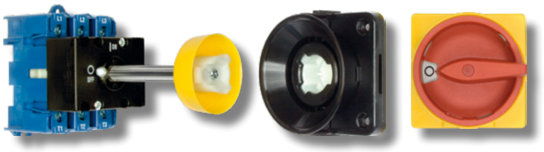
4-pole + 1 NO



Complete items KA series

MAIN, SAFETY AND MAINTENANCE SWITCH

Intergrated door clutch for enclosures ▸ 3-pole, IP66/67

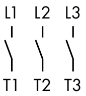


Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T203/09.VE	**70009138**
25 A	7,5 kW	64 x 64	KG20B.T203/09.VE	**70010153**
32 A	11 kW	64 x 64	KG32B.T203/09.VE	**70010560**
40 A	15 kW	64 x 64	KG41B.T203/09.VE [1]	**70010015**
63 A	22 kW	64 x 64	KG64B.T203/09.VE [1]	**70009970**
80 A	30 kW	64 x 64	KG80.T203/09.VE	**70010164**
100 A	37 kW	64 x 64	KG100.T203/09.VE	**70010331**
125 A	45 kW	88 x 88	KG125.T203/09.VE	**70010561**
160 A	55 kW	88 x 88	KG160.T203/09.VE	**70010057**

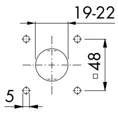
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T103/09.VE	**70008924**
25 A	7,5 kW	64 x 64	KG20B.T103/09.VE	**70019099**
32 A	11 kW	64 x 64	KG32B.T103/09.VE	**70012799**
40 A	15 kW	64 x 64	KG41B.T103/09.VE [1]	**70011812**
63 A	22 kW	64 x 64	KG64B.T103/09.VE [1]	**70012735**
80 A	30 kW	64 x 64	KG80.T103/09.VE	**70010755**
100 A	37 kW	64 x 64	KG100.T103/09.VE	**70010019**
125 A	45 kW	88 x 88	KG125.T103/09.VE	**70012788**
160 A	55 kW	88 x 88	KG160.T103/09.VE	**70010926**

[1] For the successor product, see KA switch

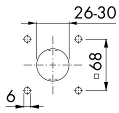


Drill hole pattern face plate

up to KG100

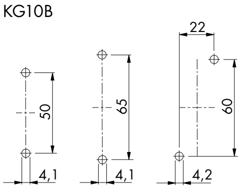


KG125–KG160

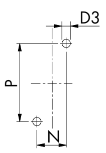


Drill hole pattern base (mounting on DIN rail up to KG100)

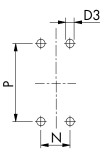
KG10B



KG20B–KG100

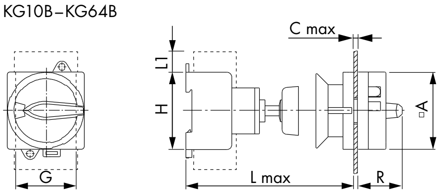


KG125–KG160

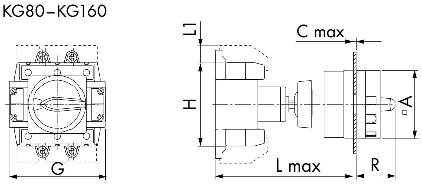


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	9	3
88 x 88	10	3

KG10B–KG64B



KG80–KG160



	N	P	D3
KG20B, KG32B	22	60	4,1
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2
KG125, KG160	36	120	6,4

	A	C	G	H	L	L1	R
KG10B	64	4	48	50	190		40,1
KG20B, KG32B	64	4	42	54	190		40,1
KG41B	64	4	50	64	190		40,1
KG64B	64	4	50	64	330		40,1
KG80	64	4	70	80	380	26	40,1
KG100	64	4	70	80	450	26	40,1
KG125, KG160	88	5,5	112	108	450	22,2	49,3

Information about KG switches with bold terminals please see page 107.

Switch cabinet mounting with door cutch ▸ 3-pole, IP66

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
40 A	15 kW	88 x 88	KG41B.T203/12.VE [1]	**70012737**
63 A	22 kW	88 x 88	KG64B.T203/12.VE [1]	**70012730**
80 A	30 kW	88 x 88	KG80.T203/12.VE	**70012726**
100 A	37 kW	88 x 88	KG100.T203/12.VE	**70012782**
125 A	45 kW	88 x 88	KG125.T203/12.VE	**70012791**
160 A	55 kW	88 x 88	KG160.T203/12.VE	**70011875**
200 A	75 kW	88 x 88	KG210.T203/13.VE	**70012810**
250 A	90 kW	88 x 88	KG250.T203/13.VE	**70011793**
315 A	110 kW	88 x 88	KG315.T203/13.VE	**70012748**
315 A	132 kW	88 x 88	C316.T203/13.VE	**70010262**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
40 A	15 kW	88 x 88	KG41B.T103/12.VE	**70012740**
63 A	22 kW	88 x 88	KG64B.T103/12.VE [1]	**70012734**
80 A	30 kW	88 x 88	KG80.T103/12.VE	**70012728**
100 A	37 kW	88 x 88	KG100.T103/12.VE	**70012777**
125 A	45 kW	88 x 88	KG125.T103/12.VE	**70019061**
160 A	55 kW	88 x 88	KG160.T103/12.VE	**70012794**
200 A	75 kW	88 x 88	KG210.T103/13.VE	**70020545**
250 A	90 kW	88 x 88	KG250.T103/13.VE	**70010332**
315 A	110 kW	88 x 88	KG315.T103/13.VE	**70019200**
315 A	132 kW	88 x 88	C316.T103/13.VE	**70018707**

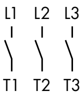
[1] For the successor product, see KA switch

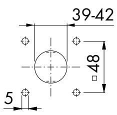
Unlock insert for door clutch M700/.

2014491 | S1D.M700.29

Enables door opening in „On" position and permanently defeating the interlock. (After inactivation the interlock it is mandatory to take effective precaution measures to prevent unauthorized person from opening the door.)

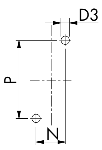
Drill hole pattern face plate



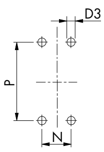


Drill hole pattern base (mounting on DIN rail up to KG100)

KG41B–KG100

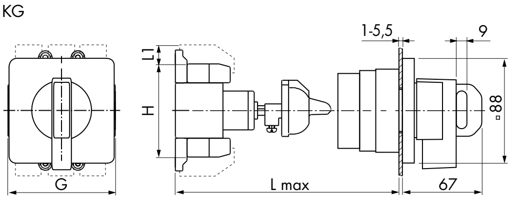


KG125–C316



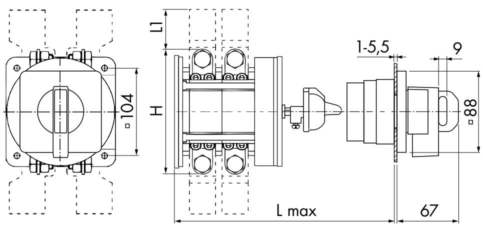
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
88 x 88	5	4
	8	3

KG



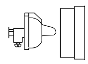
	N	P	D3
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2
KG125, KG160	36	120	6,4
KG210–KG315	44	142	6,4
C316	104	104	7

C316



	G	H	L	L1
KG41B	50	64	190	
KG64B	50	64	330	
KG80	70	80	380	26
KG100	70	80	450	26
KG125, KG160	112	108	450	22,2
KG210–KG315	145	126	550	25
C316	128	150	550	46

Information about KG switches with bold terminals please see page 107.

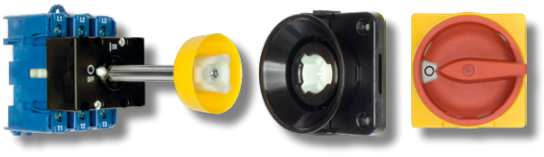


3-pole

Complete items KG series

MAIN, SAFETY AND MAINTENANCE SWITCH

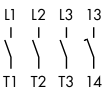
Intergrated door clutch for enclosures ▸ 3-pole + 1 NO, IP66/67



Similar image

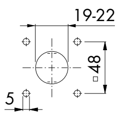
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+1NO	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T203/25.VE	**70019956**
25 A	7,5 kW	64 x 64	KG20B.T203/25.VE	**70019106**
32 A	11 kW	64 x 64	KG32B.T203/25.VE	**70019224**
40 A	15 kW	64 x 64	KG41B.T203/25.VE	**70019241**
63 A	22 kW	64 x 64	KG64B.T203/25.VE	**70019247**
80 A	30 kW	64 x 64	KG80.T203/25.VE	**70019050**
100 A	37 kW	64 x 64	KG100.T203/25.VE	**70019057**
125 A	45 kW	88 x 88	KG125.T203/25.VE	**70019070**
160 A	55 kW	88 x 88	KG160.T203/25.VE	**70019087**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+1NO	3 x 400 V			
20 A	5,5 kW	64 x 64	KG10B.T103/25.VE	**70020208**
25 A	7,5 kW	64 x 64	KG20B.T103/25.VE	**70019100**
32 A	11 kW	64 x 64	KG32B.T103/25.VE	**70019218**
40 A	15 kW	64 x 64	KG41B.T103/25.VE	**70019237**
63 A	22 kW	64 x 64	KG64B.T103/25.VE	**70019244**
80 A	30 kW	64 x 64	KG80.T103/25.VE	**70019032**
100 A	37 kW	64 x 64	KG100.T103/25.VE	**70019052**
125 A	45 kW	88 x 88	KG125.T103/25.VE	**70019063**
160 A	55 kW	88 x 88	KG160.T103/25.VE	**70019077**

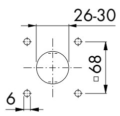


Drill hole pattern face plate

up to KG100

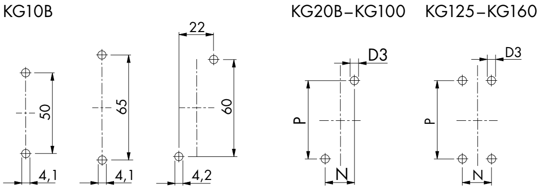


KG125–KG160



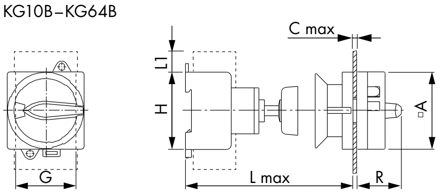
Drill hole pattern base (mounting on DIN rail up to KG100)

KG10B KG20B–KG100 KG125–KG160

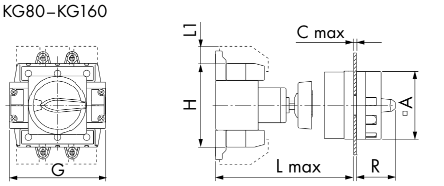


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	9	3
88 x 88	10	3

KG10B–KG64B



KG80–KG160



	N	P	D3
KG20B, KG32B	22	60	4,1
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2
KG125, KG160	36	120	6,4

	A	C	G	H	L	L1	R
KG10B	64	4	48	50	190		40,1
KG20B, KG32B	64	4	42	54	190		40,1
KG41B	64	4	50	64	190		40,1
KG64B	64	4	50	64	330		40,1
KG80	64	4	70	80	380	26	40,1
KG100	64	4	70	80	450	26	40,1
KG125, KG160	88	5,5	112	108	450	22,2	49,3

Information about KG switches with bold terminals please see page 107.

Switch cabinet mounting with door cutch ▸ 3-pole + 1 NO, IP66

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+1NO	3 x 400 V			
40 A	15 kW	88 x 88	KG41B.T203/28.VE	**70010868**
63 A	22 kW	88 x 88	KG64B.T203/28.VE	**70020160**
80 A	30 kW	88 x 88	KG80.T203/28.VE	**70020168**
100 A	37 kW	88 x 88	KG100.T203/28.VE	**70020080**
125 A	45 kW	88 x 88	KG125.T203/28.VE	**70020096**
160 A	55 kW	88 x 88	KG160.T203/28.VE	**70019856**
200 A	75 kW	88 x 88	KG210.T203/29.VE	**70028981**
250 A	90 kW	88 x 88	KG250.T203/29.VE	**70019119**
315 A	110 kW	88 x 88	KG315.T203/29.VE	**70019207**
315 A	132 kW	88 x 88	C316.T203/29.VE	**70011320**

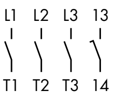
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+1NO	3 x 400 V			
40 A	15 kW	88 x 88	KG41B.T103/28.VE	**70020153**
63 A	22 kW	88 x 88	KG64B.T103/28.VE	**70020159**
80 A	30 kW	88 x 88	KG80.T103/28.VE	**70018773**
100 A	37 kW	88 x 88	KG100.T103/28.VE	**70020078**
125 A	45 kW	88 x 88	KG125.T103/28.VE	**70012789**
160 A	55 kW	88 x 88	KG160.T103/28.VE	**70020100**
200 A	75 kW	88 x 88	KG210.T103/29.VE	**70048758**
250 A	90 kW	88 x 88	KG250.T103/29.VE	**70019115**
315 A	110 kW	88 x 88	KG315.T103/29.VE	**70019202**
315 A	132 kW	88 x 88	C316.T103/29.VE	**70018711**

Unlock insert for door clutch M700/.

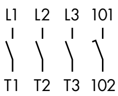
2014491 | S1D.M700.29

Enables door opening in „On" position and permanently defeating the interlock. (After inactivation the interlock it is mandatory to take effective precaution measures to prevent unauthorized person from opening the door.)

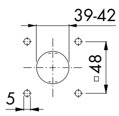
KG



C316

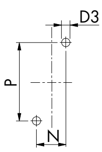


Drill hole pattern face plate

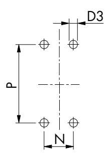


Drill hole pattern base (Mounting on DIN rail up to KG100)

KG41B–KG100

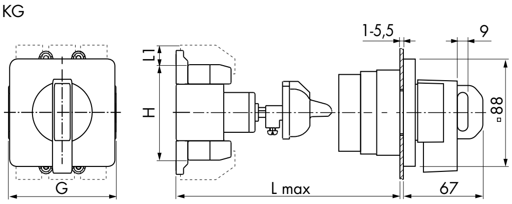


KG125–C316



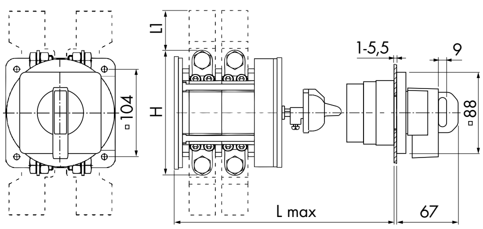
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
88 x 88	5	4
	8	3

KG



	N	P	D3
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2
KG125, KG160	36	120	6,4
KG210–KG315	44	142	6,4
C316	104	104	7

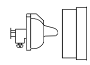
C316



	G	H	L	L1
KG41B	50	64	190	
KG64B	50	64	330	
KG80	70	80	380	26
KG100	70	80	450	26
KG125, KG160	112	108	450	22,2
KG210–KG315	145	126	550	25
C316	128	150	550	46

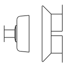
Information about KG switches with bold terminals please see page 107.

3-pole + 1NO



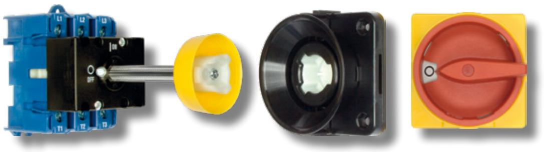
Complete items KG series

3-pole + 1NO + 1 NC



Complete items KG series

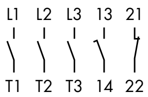
Intergrated door clutch for enclosures ▸ 3-pole + 1 NO + 1 NC, IP66/67



Similar image

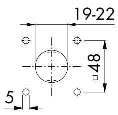
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	64 x 64	KG10B.T203/A8.VE	**70026651**
25 A	7,5 kW	64 x 64	KG20B.T203/A8.VE	**70059755**
32 A	11 kW	64 x 64	KG32B.T203/A8.VE	**70059756**
40 A	15 kW	64 x 64	KG41B.T203/A8.VE	**70041580**
63 A	22 kW	64 x 64	KG64B.T203/A8.VE	**70045400**
80 A	30 kW	64 x 64	KG80.T203/A8.VE	**70040654**
100 A	37 kW	64 x 64	KG100.T203/A8.VE	**70044849**
125 A	45 kW	88 x 88	KG125.T203/A8.VE	**70045108**
160 A	55 kW	88 x 88	KG160.T203/A8.VE	**70059757**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	64 x 64	KG10B.T103/A8.VE	**70048621**
25 A	7,5 kW	64 x 64	KG20B.T103/A8.VE	**70054526**
32 A	11 kW	64 x 64	KG32B.T103/A8.VE	**70054527**
40 A	15 kW	64 x 64	KG41B.T103/A8.VE	**70059758**
63 A	22 kW	64 x 64	KG64B.T103/A8.VE	**70049581**
80 A	30 kW	64 x 64	KG80.T103/A8.VE	**70053912**
100 A	37 kW	64 x 64	KG100.T103/A8.VE	**70059759**
125 A	45 kW	88 x 88	KG125.T103/A8.VE	**70047393**
160 A	55 kW	88 x 88	KG160.T103/A8.VE	**70059760**

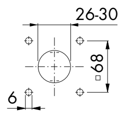


Drill hole pattern face plate

up to KG100

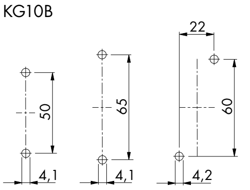


KG125–KG160

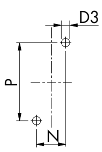


Drill hole pattern base (mounting on DIN rail up to KG100)

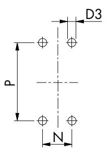
KG10B



KG20B–KG100

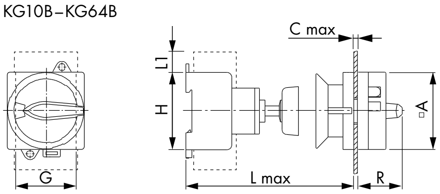


KG125–KG160



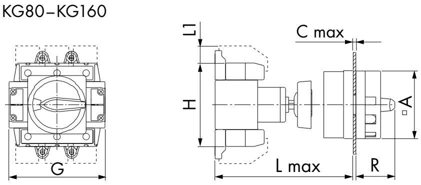
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	9	3
88 x 88	10	3

KG10B–KG64B



	N	P	D3
KG20B, KG32B	22	60	4,1
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2
KG125, KG160	36	120	6,4

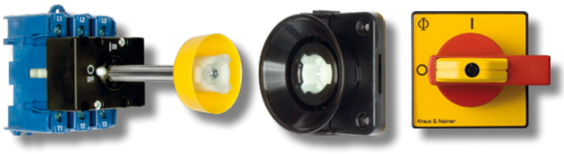
KG80–KG160



	A	C	G	H	L	L1	R
KG10B	64	4	48	50	190		40,1
KG20B, KG32B	64	4	42	54	190		40,1
KG41B	64	4	50	64	190		40,1
KG64B	64	4	50	64	330		40,1
KG80	64	4	70	80	380	26	40,1
KG100	64	4	70	80	450	26	40,1
KG125, KG160	88	5,5	112	108	450	22,2	49,3

Information about KG switches with bold terminals please see page 107.

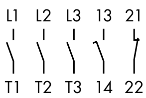
Intergrated door clutch for enclosures ▸ 3-pole + 1 NO + 1 NC, IP66/67



Similar image

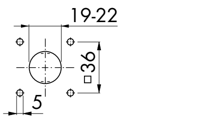
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T203/A9.VE KG10B.T203/A9.VE	**70059761** **70059762**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T203/A9.VE KG20B.T203/A9.VE	**70059763** **70059764**
32 A	11 kW	48 x 48 64 x 64	KG32A.T203/A9.VE KG32B.T203/A9.VE	**70059765** **70059766**
40 A	15 kW	64 x 64	KG41B.T203/A9.VE	**70059767**
63 A	22 kW	64 x 64	KG64B.T203/A9.VE	**70059768**
80 A	30 kW	64 x 64	KG80.T203/A9.VE	**70059769**
100 A	37 kW	64 x 64	KG100.T203/A9.VE	**70059770**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
20 A	5,5 kW	48 x 48 64 x 64	KG10A.T103/A9.VE KG10B.T103/A9.VE	**70065283** **70065284**
25 A	7,5 kW	48 x 48 64 x 64	KG20A.T103/A9.VE KG20B.T103/A9.VE	**70046208** **70065285**
32 A	11 kW	48 x 48 64 x 64	KG32A.T103/A9.VE KG32B.T103/A9.VE	**70065286** **70065287**
40 A	15 kW	64 x 64	KG41B.T103/A9.VE	**70065288**
63 A	22 kW	64 x 64	KG64B.T103/A9.VE	**70041980**
80 A	30 kW	64 x 64	KG80.T103/A9.VE	**70065289**
100 A	37 kW	64 x 64	KG100.T103/A9.VE	**70065290**

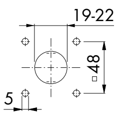


Drill hole pattern face plate

KG10A, KG20A, KG32A

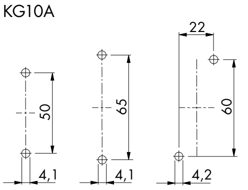


KG10B–KG64B, KG80, KG100

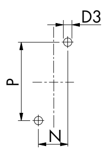


Drill hole pattern base (mounting on DIN rail possible)

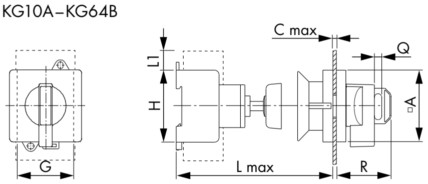
KG10A



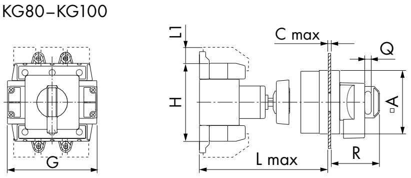
KG20A–KG100



KG10A–KG64B



KG80–KG100



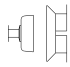
Maximum number of padlocks

Face plate	Shackle-∅	Number of padlocks
48 x 48	7	3
	5	4
64 x 64	8	3
	5	4

	N	P	D3
KG20A, KG32A, KG20B, KG32B	22	60	4,1
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2

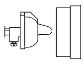
	A	C	G	H	L	L1	R	Q
KG10A	48	4	48	50	190		51	7,2
KG10B	64	4	48	50	190		58	8,1
KG20A, KG32A	48	4	42	54	190		51	7,2
KG20B, KG32B	64	4	42	54	190		58	8,1
KG41B	64	4	50	64	190		58	8,1
KG64B	64	4	50	64	330		58	8,1
KG80	64	4	70	80	380	26	58	8,1
KG100	64	4	70	80	450	26	58	8,1

Information about KG switches with bold terminals please see page 107.



MAIN, SAFETY AND MAINTENANCE SWITCH

3-pole + 1NO + 1 NC



Complete items KG series

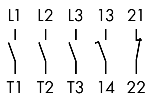
Switch cabinet mounting with door cutch ▸ 3-pole + 1 NO + 1 NC, IP66

Similar image

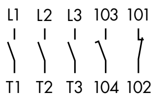
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
25 A	7,5 kW	88 x 88	KG20B.T203/B1.VE	**70037892**
32 A	11 kW	88 x 88	KG32B.T203/B1.VE	**70059771**
40 A	15 kW	88 x 88	KG41B.T203/B1.VE	**70059772**
63 A	22 kW	88 x 88	KG64B.T203/B1.VE	**70049434**
80 A	30 kW	88 x 88	KG80.T203/B1.VE	**70059773**
100 A	37 kW	88 x 88	KG100.T203/B1.VE	**70059774**
125 A	45 kW	88 x 88	KG125.T203/B1.VE	**70059775**
160 A	55 kW	88 x 88	KG160.T203/B1.VE	**70059776**
200 A	75 kW	88 x 88	KG210.T203/B2.VE	**70059777**
250 A	90 kW	88 x 88	KG250.T203/B2.VE	**70059778**
315 A	110 kW	88 x 88	KG315.T203/B2.VE	**70059779**
315 A	132 kW	88 x 88	C316.T203/B2.VE	**70059780**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
25 A	7,5 kW	88 x 88	KG20B.T103/B1.VE	**70059781**
32 A	11 kW	88 x 88	KG32B.T103/B1.VE	**70038438**
40 A	15 kW	88 x 88	KG41B.T103/B1.VE	**70038439**
63 A	22 kW	88 x 88	KG64B.T103/B1.VE	**70049582**
80 A	30 kW	88 x 88	KG80.T103/B1.VE	**70051487**
100 A	37 kW	88 x 88	KG100.T103/B1.VE	**70059782**
125 A	45 kW	88 x 88	KG125.T103/B1.VE	**70032235**
160 A	55 kW	88 x 88	KG160.T103/B1.VE	**70059783**
200 A	75 kW	88 x 88	KG210.T103/B2.VE	**70050216**
250 A	90 kW	88 x 88	KG250.T103/B2.VE	**70026776**
315 A	110 kW	88 x 88	KG315.T103/B2.VE	**70038440**
315 A	132 kW	88 x 88	C316.T103/B2.VE	**70037173**

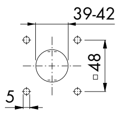
KG



C316

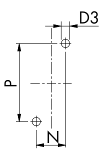


Drill hole pattern face plate

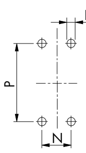


Drill hole pattern base (Mounting on DIN rail up to KG100)

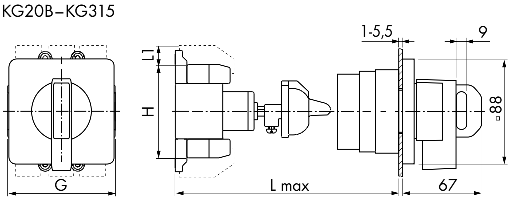
KG20B–KG100



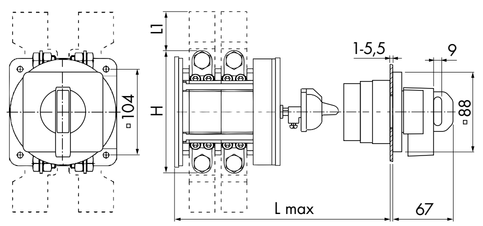
KG125–C316



KG20B–KG315



C316



Unlock insert for door clutch M700/.

2014491 | S1D.M700.29

Enables door opening in „On" position and permanently defeating the interlock. (After inactivation the interlock it is mandatory to take effective precaution measures to prevent unauthorized person from opening the door.)

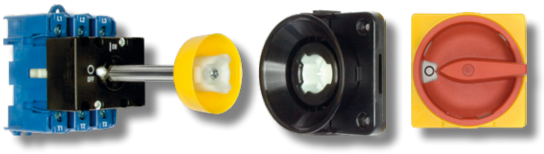
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
88 x 88	5	4
	8	3

	N	P	D3
KG20B, KG32B	22	60	4,1
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2
KG125, KG160	36	120	6,4
KG210–KG315	44	142	6,4
C316	104	104	7

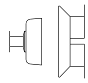
	G	H	L	L1
KG20B, KG32B	42	54	190	
KG41B	50	64	190	
KG64B	50	64	330	
KG80	70	80	380	26
KG100	70	80	450	26
KG125, KG160	112	108	450	22,2
KG210–KG315	145	126	550	25
C316	128	150	550	46

Information about KG switches with bold terminals please see page 107.

Intergrated door clutch for enclosures ▸ 3-pole + 1 NO H-bridge Gold, IP66/67



Similar image



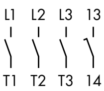
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
25 A	7,5 kW	64 x 64	KG20B.T203/D-A283.VE	**70048751**
32 A	11 kW	64 x 64	KG32B.T203/D-A188.VE	**70048858**
40 A	15 kW	64 x 64	On request	
63 A	22 kW	64 x 64	On request	
80 A	30 kW	64 x 64	KG80.T203/D-A157.VE	**70049113**
100 A	37 kW	64 x 64	KG100.T203/D-A223.VE	**70048647**
125 A	45 kW	88 x 88	KG125.T203/D-A107.VE	**70048696**
160 A	55 kW	88 x 88	On request	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
25 A	7,5 kW	64 x 64	On request	
32 A	11 kW	64 x 64	On request	
40 A	15 kW	64 x 64	On request	
63 A	22 kW	64 x 64	On request	
80 A	30 kW	64 x 64	On request	
100 A	37 kW	64 x 64	On request	
125 A	45 kW	88 x 88	On request	
160 A	55 kW	88 x 88	On request	

Notice:

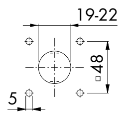
Highest contact reliability by H-bridge design with self-cleaning „cross-wire" contacts. Gold plated for low voltage, low current applications.

Exception: KG20B and KG32B instead H-bridge design equipped with multiple connecting contacts, KG41B and KG64B instead H-bridge design equipped with multiple connecting contacts.

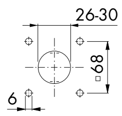


Drill hole pattern face plate

up to KG100

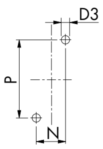


KG125–KG160

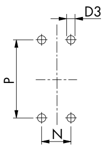


Drill hole pattern base (mounting on DIN rail up to KG100)

KG20B–KG100

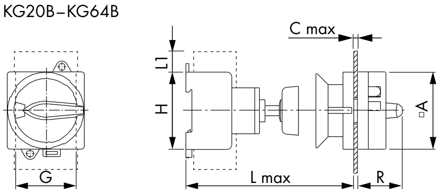


KG125–KG160

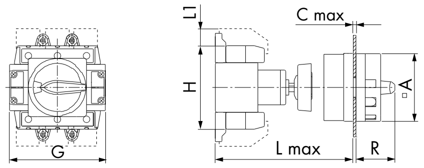


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	9	3
88 x 88	10	3

KG20B–KG64B



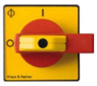
KG80–KG160

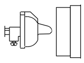


	N	P	D3
KG20B, KG32B	22	60	4,1
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2
KG125, KG160	36	120	6,4

	A	C	G	H	L	L1	R
KG20B, KG32B	64	4	42	54	190		40,1
KG41B	64	4	50	64	190		40,1
KG64B	64	4	50	64	330		40,1
KG80	64	4	70	80	380	26	40,1
KG100	64	4	70	80	450	26	40,1
KG125, KG160	88	5,5	112	108	450	22,2	49,3

Information about KG switches with bold terminals please see page 107.





Switch cabinet mounting with door clutch ▸ 3-pole + 1 NO H-bridge Gold, IP66

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
100 A	37 kW	88 x 88	KG100.T203/D-A052.VE	**70048645**
125 A	45 kW	88 x 88	KG125.T203/D-A023.VE	**70048694**
160 A	55 kW	88 x 88	KG160.T203/D-A018.VE	**70048711**
200 A	75 kW	88 x 88	KG210.T203/D-A004.VE	**70048764**
250 A	90 kW	88 x 88	KG250.T203/D-A011.VE	**70048769**
315 A	110 kW	88 x 88	KG315.T203/D-A007.VE	**70048775**
315 A	132 kW	88 x 88	C316.T203/D-A012.VE	**70049326**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
100 A	37 kW	88 x 88	KG100.T103/D-A018.VE	**70048629**
125 A	45 kW	88 x 88	KG125.T103/D-A014.VE	**70039934**
160 A	55 kW	88 x 88	KG160.T103/D-A014.VE	**70048704**
200 A	75 kW	88 x 88	KG210.T103/D-A003.VE	**70048759**
250 A	90 kW	88 x 88	KG250.T103/D-A017.VE	**70040027**
315 A	110 kW	88 x 88	KG315.T103/D-A007.VE	**70048771**
315 A	132 kW	88 x 88	C316.T103/D-A012.VE	**70048610**

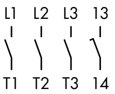
Unlock insert for door clutch M700/.

2014491 | S1D.M700.29

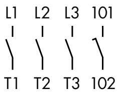
Enables door opening in „On" position and permanently defeating the interlock. (After inactivation the interlock it is mandatory to take effective precaution measures to prevent unauthorized person from opening the door.)

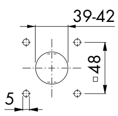
Drill hole pattern face plate

KG



C316





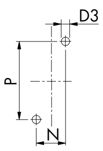
Notice:

Highest contact reliability by H-bridge design with self-cleaning „cross-wire" contacts. Gold plated for low voltage, low current applications.

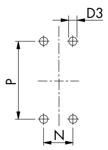
Exception: C316 instead H-bridge Gold design equipped with connecting contacts.

Drill hole pattern base (mounting on DIN rail up to KG100)

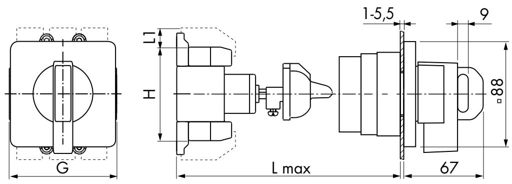
KG100



KG125–C316

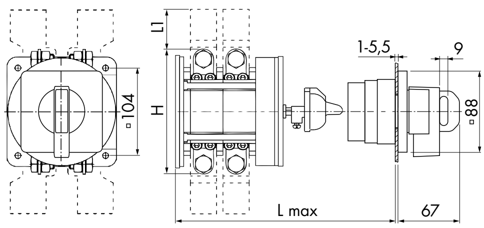


KG



Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
88 x 88	5	4
	8	3

C316

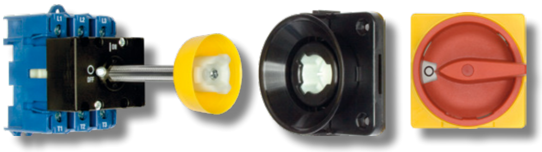


	N	P	D3
KG100	25	90	5,2
KG125, KG160	36	120	6,4
KG210–KG315	44	142	6,4
C316	104	104	7

	D	G	H	L	L1	N	P
KG100	5,2	70	80	450	26	25	90
KG125, KG160	6,4	112	108	450	22,2	36	120
KG210 – KG315	6,4	145	126	550	25	44	142
C316	7	128	150	550	46	104	104

Information about KG switches with bold terminals please see page 107.

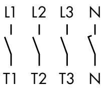
Intergrated door clutch for enclosures ▸ 4-pole, IP66/67



Similar image

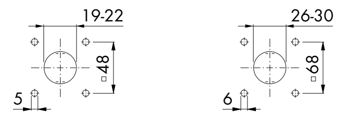
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
20 A	5,5 kW	64 x 64	KG10B.T204/09.VE	**70009771**
25 A	7,5 kW	64 x 64	KG20B.T204/09.VE	**70019107**
32 A	11 kW	64 x 64	KG32B.T204/09.VE	**70011178**
40 A	15 kW	64 x 64	KG41B.T204/09.VE	**70011053**
63 A	22 kW	64 x 64	KG64B.T204/09.VE	**70010058**
80 A	30 kW	64 x 64	KG80.T204/09.VE	**70010792**
100 A	37 kW	64 x 64	KG100.T204/09.VE	**70011464**
125 A	45 kW	88 x 88	KG125.T204/09.VE	**70010305**
160 A	55 kW	88 x 88	KG160.T204/09.VE	**70010333**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
20 A	5,5 kW	64 x 64	KG10B.T104/09.VE	**70010477**
25 A	7,5 kW	64 x 64	KG20B.T104/09.VE	**70019101**
32 A	11 kW	64 x 64	KG32B.T104/09.VE	**70010021**
40 A	15 kW	64 x 64	KG41B.T104/09.VE	**70019238**
63 A	22 kW	64 x 64	KG64B.T104/09.VE	**70010059**
80 A	30 kW	64 x 64	KG80.T104/09.VE	**70019047**
100 A	37 kW	64 x 64	KG100.T104/09.VE	**70019054**
125 A	45 kW	88 x 88	KG125.T104/09.VE	**70019065**
160 A	55 kW	88 x 88	KG160.T104/09.VE	**70017531**



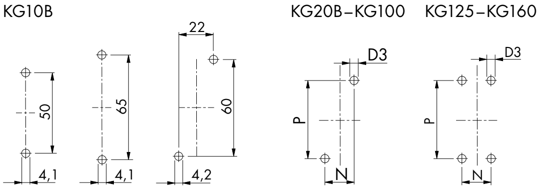
Drill hole pattern face plate

up to KG100 KG125–KG160

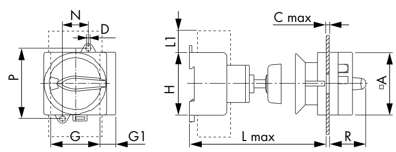


Drill hole pattern base (mounting on DIN rail up to KG100)

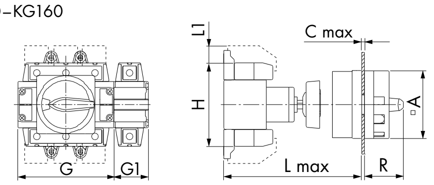
KG10B KG20B–KG100 KG125–KG160



KG10B–KG64B



KG80–KG160



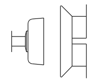
Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
64 x 64	9	3
88 x 88	10	3

	N	P	D3
KG20B, KG32B	22	60	4,1
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2
KG125, KG160	36	120	6,4

	A	C	G	G1	H	L	L1	R
KG10B	64	4	48	0	50	190		40,1
KG20B, KG32B	64	4	42	13,5	54	190		40,1
KG41B	64	4	50	16	64	190		40,1
KG64B	64	4	50	16	64	330		40,1
KG80	64	4	70	22	80	380	26	40,1
KG100	64	4	70	22	80	450	26	40,1
KG125, KG160	88	5,5	112	38	108	450	22,2	49,3

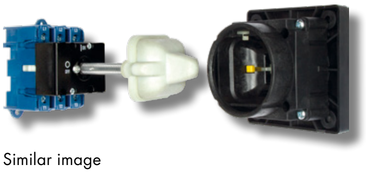
Information about KG switches with bold terminals please see page 107.

4-pole



Complete items KG series

Switch cabinet mounting with door clutch ▸ 4-pole, IP66



Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	15 kW	88 x 88	KG41B.T204/12.VE	**70019242**
63 A	22 kW	88 x 88	KG64B.T204/12.VE	**70019249**
80 A	30 kW	88 x 88	KG80.T204/12.VE	**70019051**
100 A	37 kW	88 x 88	KG100.T204/12.VE	**70019058**
125 A	45 kW	88 x 88	KG125.T204/12.VE	**70019072**
160 A	55 kW	88 x 88	KG160.T204/12.VE	**70019091**
200 A	75 kW	88 x 88	KG210.T204/13.VE	**70034618**
250 A	90 kW	88 x 88	KG250.T204/13.VE	**70018836**
315 A	110 kW	88 x 88	KG315.T204/13.VE	**70023208**
315 A	132 kW	88 x 88	C316.T204/13.VE	**70018715**

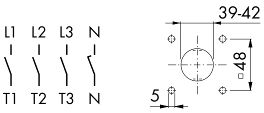
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	15 kW	88 x 88	KG41B.T104/12.VE	**70019239**
63 A	22 kW	88 x 88	KG64B.T104/12.VE	**70019245**
80 A	30 kW	88 x 88	KG80.T104/12.VE	**70019048**
100 A	37 kW	88 x 88	KG100.T104/12.VE	**70019055**
125 A	45 kW	88 x 88	KG125.T104/12.VE	**70019066**
160 A	55 kW	88 x 88	KG160.T104/12.VE	**70019081**
200 A	75 kW	88 x 88	KG210.T104/13.VE	**70028058**
250 A	90 kW	88 x 88	KG250.T104/13.VE	**70027093**
315 A	110 kW	88 x 88	KG315.T104/13.VE	**70030113**
315 A	132 kW	88 x 88	C316.T104/13.VE	**70018614**

Unlock insert for door clutch M700/.

2014491 | S1D.M700.29

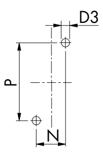
Enables door opening in „On" position and permanently defeating the interlock. (After inactivation the interlock it is mandatory to take effective precaution measures to prevent unauthorized person from opening the door.)

Drill hole pattern face plate

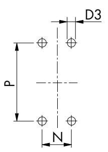


Drill hole pattern base (mounting on DIN rail up to KG100)

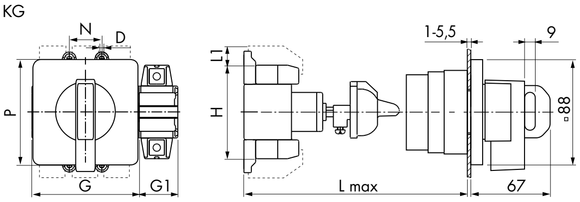
KG41B–KG100



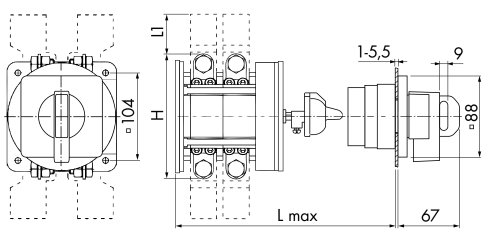
KG125–C316



KG



C316



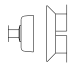
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
88 x 88	5	4
	8	3

	N	P	D3
KG41B, KG64B	25	70	4,1
KG80, KG100	25	90	5,2
KG125, KG160	36	120	6,4
KG210–KG315	44	142	6,4
C316	104	104	7

	G	G1	H	L	L1
KG41B	50	16	64	190	
KG64B	50	16	64	330	
KG80	70	22	80	380	
KG100	70	22	80	450	26
KG125, KG160	112	38	108	450	22,2
KG210–KG315	145	52,5	126	550	25
C316	128	-	150	550	46

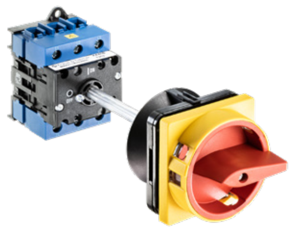
Information about KG switches with bold terminals please see page 107.

3-pole



Complete items KA series

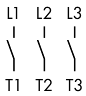
DIN rail mounting with door clutches ▸ 3-pole, IP66/67



Similar image

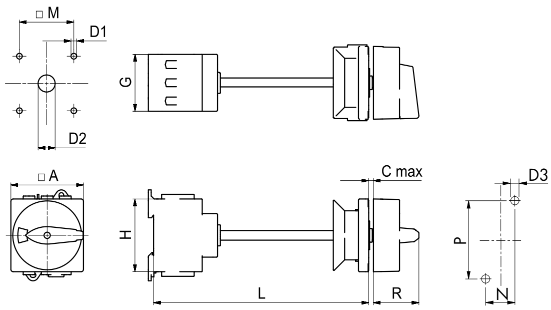
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
40 A	20 kW	64 x 64	KA40B.T203/09.VE	**70022744**
63 A	22 kW	64 x 64	KA63B.T203/09.VE	**70024354**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
40 A	20 kW	64 x 64	KA40B.T103/09.VE	**70022743**
63 A	22 kW	64 x 64	KA63B.T103/09.VE	**70024349**

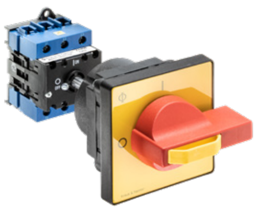


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7–8	3

Size	D1	D2	M	A	G	H	L	R	Cmax	N	P	D3
S1	5	10-15	48	64	50	64	175-190	40	4	25	70	4,1



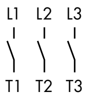
DIN rail mounting with simplified door clutches and centering device ▸ 3-pole, IP66/67



Similar image

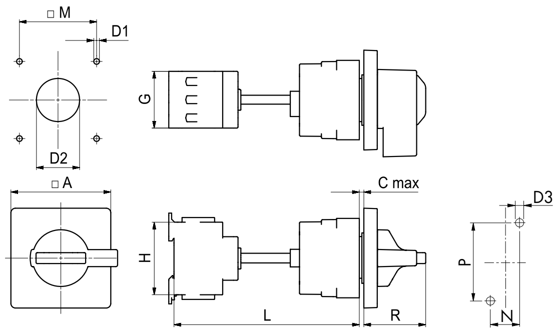
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
40 A	20 kW	88 x 88	KA40B.T203/12.VE	**70024340**
63 A	22 kW	88 x 88	KA63B.T203/12.VE	**70024355**

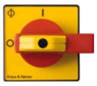
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
40 A	20 kW	88 x 88	KA40B.T103/12.VE	**70022748**
63 A	22 kW	88 x 88	KA63B.T103/12.VE	**70024350**

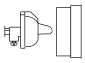


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
88 x 88	4–8	3

Size	D1	D2	M	A	G	H	L	R	Cmax	N	P	D3
S2	5	39-42	48	88	50	64	155-170	54,5	1-5,5	25	70	4,1

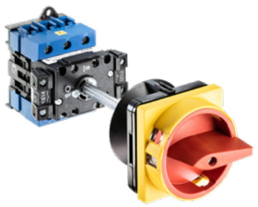






MAIN, SAFETY AND MAINTENANCE SWITCH

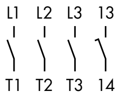
DIN rail mounting with door clutches ▸ 3-pole + 1 NO, IP66/67



Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T203/25.VE	**70031286**
63 A	22 kW	64 x 64	KA63B.T203/25.VE	**70031287**

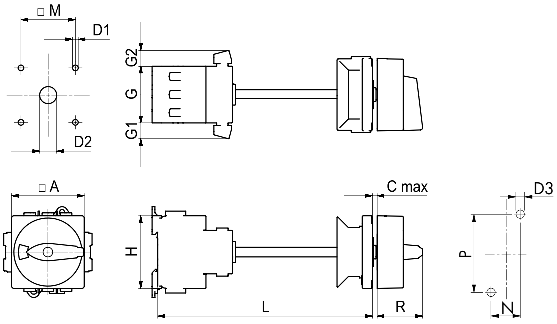
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T103/25.VE	**70031130**
63 A	22 kW	64 x 64	KA63B.T103/25.VE	**70031132**



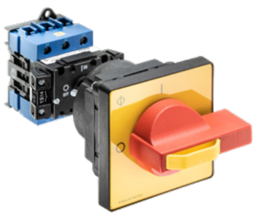
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7–8	3

Size	D1	D2	M	A	G	G1	G2	H	L	R	C max
S1	5	10-15	48	64	50	14	–	64	175-200	40	4

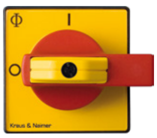
N	P	D3
25	70	4,1



DIN rail mounting with simplified door clutches and centering device ▸ 3-pole + 1 NO, IP66/67

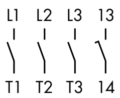


Similar image



Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
40 A	20 kW	88 x 88	KA40B.T203/28.VE	**70031288**
63 A	22 kW	88 x 88	KA40B.T203/28.VE	**70031289**

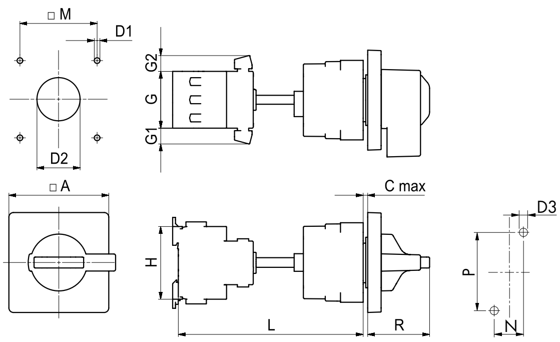
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole + 1NO	3 x 400 V			
40 A	20 kW	88 x 88	KA40B.T203/28.VE	**70031140**
63 A	22 kW	88 x 88	KA63B.T103/28.VE	**70031141**



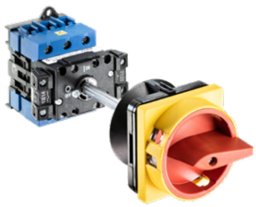
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
88 x 88	4–8	3

Size	D1	D2	M	A	G	G1	G2	H	L	R	C max
S2	5	39-42	48	88	50	14	–	64	155-180	54,5	1-5,5

N	P	D3
25	70	4,1



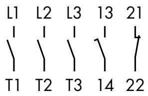
DIN rail mounting with door clutches ▸ 3-pole + 1 NO + 1 NC, IP66/67



Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40B.T203/A8.VE	**70032599**
63 A	22 kW	64 x 64	KA63B.T203/A8.VE	**70032636**

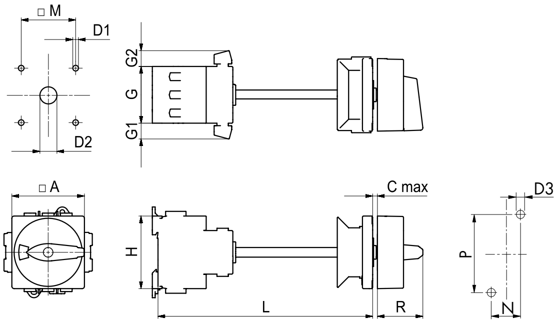
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40B.T103/A8.VE	**70032625**
63 A	22 kW	64 x 64	KA63B.T103/A8.VE	**70032648**



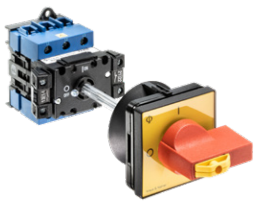
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7–8	3

Size	D1	D2	M	A	G	G1	G2	H	L	R	C max
S1	5	10-15	48	64	50	14	14	64	175-200	40	4

N	P	D3
25	70	4,1

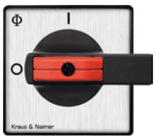


DIN rail mounting with door clutches ▸ 3-pole + 1 NO + 1 NC, IP66/67

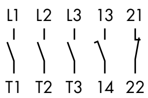


Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40B.T203/A9.VE	**70032600**
63 A	22 kW	64 x 64	KA63B.T203/A9.VE	**70032627**



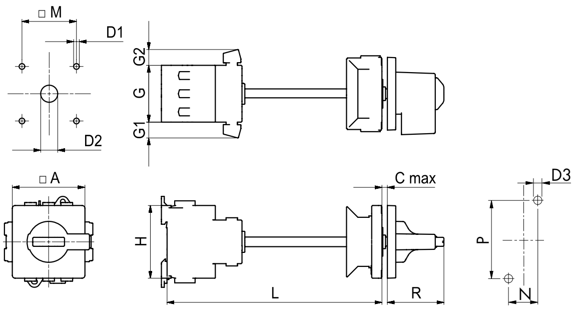
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	64 x 64	KA40B.T103/A9.VE	**70032668**
63 A	22 kW	64 x 64	KA63B.T103/A9.VE	**70032630**



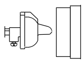
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	4–7,5	3

Size	D1	D2	M	A	G	G1	G2	H	L	R	C max
S1	5	19-22	48	64	50	14	14	64	175-200	49,8	4

N	P	D3
25	70	4,1

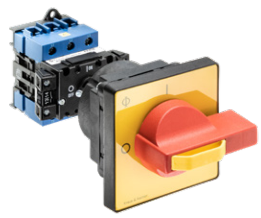


3-pole + 1NO + 1 NC



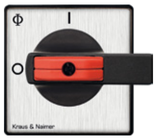
Complete items KA series

DIN rail mounting with simplified door clutches and centering device ▸ 3-pole + 1 NO + 1 NC, IP66/67

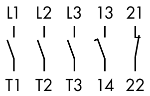


Similar image

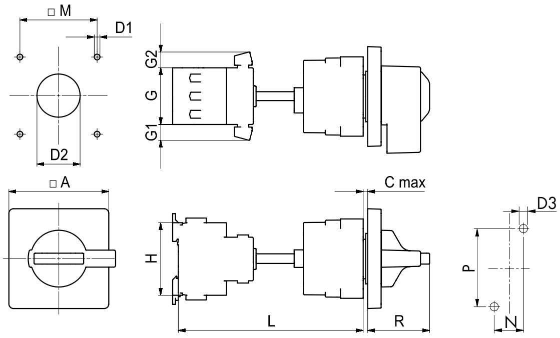
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	88 x 88	KA40B.T203/B1.VE	**70032601**
63 A	22 kW	88 x 88	KA63B.T203/B1.VE	**70032647**



Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole+ 1NO +1NC	3 x 380 V/440 V			
40 A	20 kW	88 x 88	KA40B.T103/B1.VE	**70032783**
63 A	22 kW	88 x 88	KA63B.T103/B1.VE	**70032637**



Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
88 x 88	4–8	3



Size	D1	D2	M	A	G	G1	G2	H	L	R	C max
S2	5	39-42	48	88	50	14	14	64	155-180	54,5	1-5,5

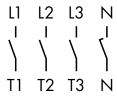
N	P	D3
25	70	4,1

DIN rail mounting with door clutches ▸ 4-pole, IP66/67

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T204/09.VE	**70031313**
63 A	22 kW	64 x 64	KA63B.T204/09.VE	**70024356**

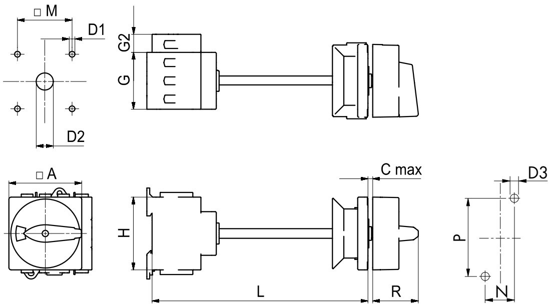
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	20 kW	64 x 64	KA40B.T104/09.VE	**70053003**
63 A	22 kW	64 x 64	KA63B.T104/09.VE	**70053008**



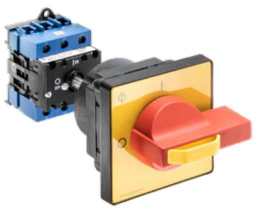
Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
64 x 64	7–8	3

Size	D1	D2	M	A	G	G2	H	L	R	C max
S1	5	10-15	48	64	50	16	64	175-190	40	4

N	P	D3
25	70	4,1



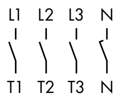
DIN rail mounting with simplified door clutches and centering device ▸ 4-pole, IP66



Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	20 kW	88 x 88	KA40B.T204/12.VE	**70053006**
63 A	22 kW	88 x 88	KA63B.T204/12.VE	**70049512**

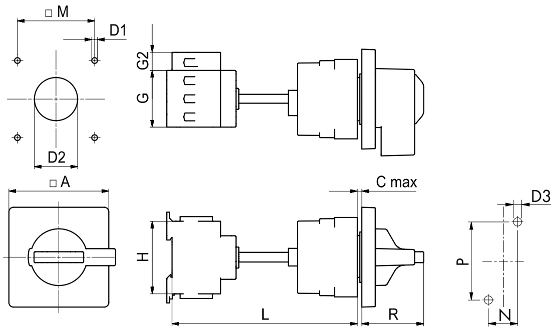
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
40 A	20 kW	88 x 88	KA40B.T104/12.VE	**70053004**
63 A	22 kW	88 x 88	KA63B.T104/12.VE	**70053009**



Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
88 x 88	4–8	3

Size	D1	D2	M	A	G	G2	H	L	R	C max
S2	5	39-42	48	88	50	16	64	155-170	54,5	1-5,5

N	P	D3
25	70	4,1



4-pole

Complete items KA series

Plastic enclosures ▸ 3-pole, IP66/IP67/IP69k

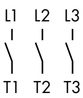
Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

Similar image

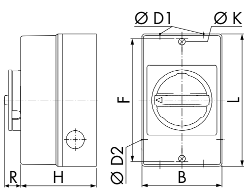
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	**3 x 400 V**			
20 A	5,5 kW	KG10.T203/33.KS51V	**70008323**	
25 A	7,5 kW	KG20.T203/33.KL51V	**70024035**	
32 A	11 kW	KG32.T203/33.KL51V	**70026000**	
40 A	15 kW	KG41.T203/33.KL11V	**70010220**	
63 A	22 kW	KG64.T203/33.KL11V [3]	**70010221**	
80 A	30 kW	KG80.T203/33.KL71V	**70010077**	
100 A	37 kW	KG100.T203/33.KL71V	**70010211**	
125 A	45 kW	KG125.T203/36.STM [1]	**70022687**	
160 A	55 kW	KG160.T203/36.STM [1]	**70011176**	
250 A	90 kW	KG250.T203/39.STM [1,2]	**70022430**	
315 A	110 kW	KG315.T203/39.STM [1,2]	**70022688**	
315A	132 kW	C316.T203/39.STM [1,2]	**70023009**	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	**3 x 400 V**			
20 A	5,5 kW	KG10.T103/33.KS51V	**70008467**	
25 A	7,5 kW	KG20.T103/33.KL51V	**70011451**	
32 A	11 kW	KG32.T103/33.KL51V	**70025944**	
40 A	15 kW	KG41.T103/33.KL11V	**70014343**	
63 A	22 kW	KG64.T103/33.KL11V	**70014344**	
80 A	30 kW	KG80.T103/33.KL71V	**70019033**	
100 A	37 kW	KG100.T103/33.KL71V	**70019053**	
125 A	45 kW	KG125.T103/36.STM [1]	**70040053**	
160 A	55 kW	KG160.T103/36.STM [1]	**70027495**	
250 A	90 kW	KG250.T103/39.STM [1,2]	**70040052**	
315 A	110 kW	KG315.T103/39.STM [1,2]	**70040055**	
315 A	132 kW	C316.T103/39.STM [1,2]	**70033980**	

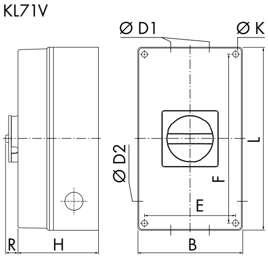
[1] Protection class IP66/67 | [2] switch enclosure with rubber sealed cable entry neck. additional cable fixing outside mandatory! |
[3] For the successor product, see KA switch | Larger enclosures on request.



KS51V, KL51V, KL11V

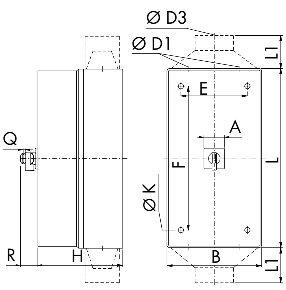


KL71V

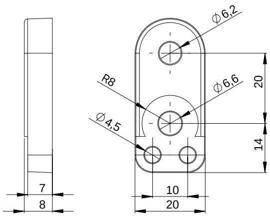


Maximum number of padlocks			
Padlock device	Face plate	Shackle-Ø	Number of padlocks
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

STM

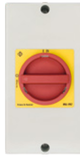


Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)



	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20, KG32 ... KL51V		85	2 x 20/25	20			150	82	4,2	160		17	
KG41, KG64 ... KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG80, KG100 ... KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG125, KG160 ... STM	88	280	2 x 63 1 x 20			254	354	180	7,0	380		73	9
KG250, KG315 ... STM	88	280	2 x 20		1 x 28-60 [3]	254	534	180	7,0	560	110	73	9
C316 ... STM	130	280	2 x 20		1 x 28-60 [3]	254	534	230	7,0	560	110	86,5	9,2

[3] Range of usable outside cable diameter



Plastic enclosures ▸ 3-pole + 1 NO/NC, IP66 /IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

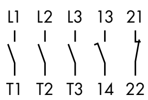
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	**3 x 400 V**	**2 Auxiliary contacts (1 NO, 1 NC)**		
20 A	5,5 kW	KG10.T203/40.KS51V	**70008616**	
25 A	7,5 kW	KG20.T203/40.KL51V	**70010392**	
32 A	11 kW	KG32.T203/40.KL51V	**70010041**	
40 A	15 kW	KG41.T203/40.KL11V [3]	**70010888**	
63 A	22 kW	KG64.T203/40.KL11V [3]	**70010235**	
80 A	30 kW	KG80.T203/40.KL71V	**70010989**	
100 A	37 kW	KG100.T203/40.KL71V	**70012783**	
125 A	45 kW	KG125.T203/43.STM [1]	**70020290**	
160 A	55 kW	KG160.T203/43.STM [1]	**70011463**	
250 A	90 kW	KG250.T203/46.STM [1, 2]	**70010870**	
315 A	110 kW	KG315.T203/46.STM [1, 2]	**70010871**	
315 A	132 kW	C316.T203/46.STM [1, 2]	**70021606**	

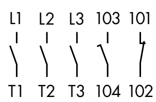
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	**3 x 400 V**	**2 Auxiliary contacts (1 NO, 1 NC)**		
20 A	5,5 kW	KG10.T103/40.KS51V	**70009801**	
25 A	7,5 kW	KG20.T103/40.KL51V	**70010858**	
32 A	11 kW	KG32.T103/40.KL51V	**70021928**	
40 A	15 kW	KG41.T103/40.KL11V [3]	**70010099**	
63 A	22 kW	KG64.T103/40.KL11V [3]	**70009947**	
80 A	30 kW	KG80.T103/40.KL71V	**70011629**	
100 A	37 kW	KG100.T103/40.KL71V	**70012779**	
125 A	45 kW	KG125.T103/43.STM [1]	**70022096**	
160 A	55 kW	KG160.T103/43.STM [1]	**70022020**	
250 A	90 kW	KG250.T103/46.STM [1, 2]	**70012801**	
315 A	110 kW	KG315.T103/46.STM [1, 2]	**70025958**	
315 A	132 kW	C316.T103/46.STM [1, 2]	**70024558**	

[1] Protection class IP66/67 | [2] switch enclosure with rubber sealed cable entry neck. additional cable fixing outside mandatory! |
[3] For the successor product, see KA switch | Larger enclosures on request.

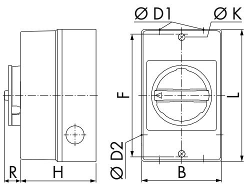
KG



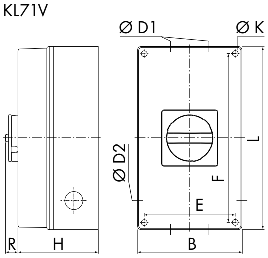
C316



KS51V, KL51V, KL11V

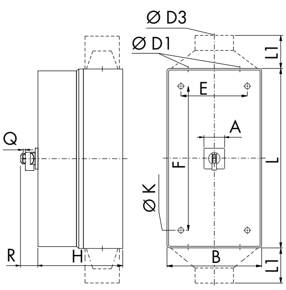


KL71V

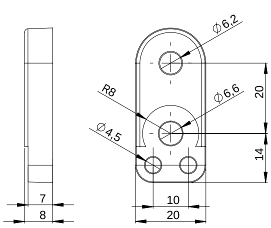


Maximum number of padlocks			
Padlock device	Face plate	Shackle-Ø	Number of padlocks
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

STM



Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)



	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20, KG32 ... KL51V		85	2 x 20/25	20			150	82	4,2	160		17	
KG41, KG64 ... KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG80, KG100 ... KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG125, KG160 ....STM	88	280	2 x 63 1 x 20			254	354	180	7,0	380		73	9
KG250, KG315 ....STM	88	280	2 x 20		1 x 28-60 [3]	254	534	180	7,0	560	110	73	9
C316 ....STM	130	280	2 x 20		1 x 28-60 [3]	254	534	230	7,0	560	110	86,5	9,2

[3] Range of usable outside cable diameter

Plastic enclosures ▸ 4-pole, IP66/IP67/IP69k

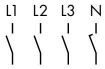
Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

Similar image

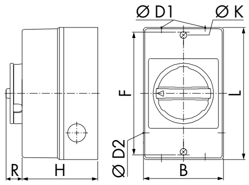
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
4-pole	**3 x 400 V**			
20 A	5,5 kW	KG10.T204/33.KS51V	**70011042**	
25 A	7,5 kW	KG20.T204/33.KL51V	**70024127**	
32 A	11 kW	KG32.T204/33.KL51V	**70025247**	
40 A	15 kW	KG41.T204/33.KL11V	**70010469**	
63 A	22 kW	KG64.T204/33.KL11V	**70012736**	
80 A	30 kW	KG80.T204/33.KL71V	**70010470**	
100 A	37 kW	KG100.T204/33.KL71V	**70012784**	
125 A	45 kW	KG125.T204/36.STM [1]	**70026383**	
160 A	55 kW	KG160.T204/36.STM [1]	**70028333**	
250 A	90 kW	KG250.T204/47.STM [1, 2]	**70027270**	
315 A	110 kW	KG315.T204/47.STM [1, 2]	**70048776**	
315A	132 kW	C316.T204/39.STM [1, 2]	**70048620**	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
4-pole	**3 x 400 V**			
20 A	5,5 kW	KG10.T104/33.KS51V	**70023357**	
25 A	7,5 kW	KG20.T104/33.KL51V	**70024128**	
32 A	11 kW	KG32.T104/33.KL51V	**70025498**	
40 A	15 kW	KG41.T104/33.KL11V	**70011284**	
63 A	22 kW	KG64.T104/33.KL11V	**70019028**	
80 A	30 kW	KG80.T104/33.KL71V	**70019049**	
100 A	37 kW	KG100.T104/33.KL71V	**70012781**	
125 A	45 kW	KG125.T104/36.STM [1]	**70018658**	
160 A	55 kW	KG160.T104/36.STM [1]	**70048706**	
250 A	90 kW	KG250.T104/47.STM [1, 2]	**70036247**	
315 A	110 kW	KG315.T104/47.STM [1, 2]	**70048772**	
315 A	132 kW	C316.T104/39.STM [1, 2]	**70048612**	

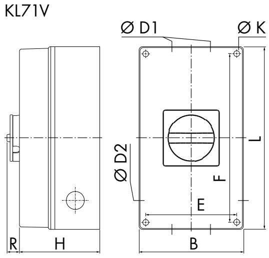
[1] Protection class IP66/67 | [2] switch enclosure with rubber sealed cable entry neck.
additional cable fixing outside mandatory
Larger enclosures on request.



KS51V, KL51V, KL11V

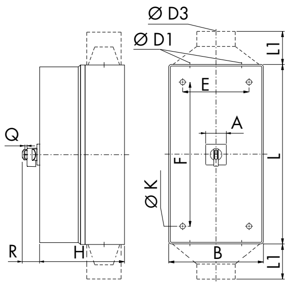


KL71V

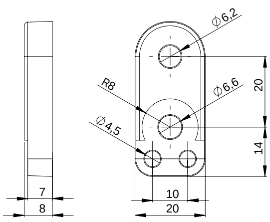


Maximum number of padlocks			
Padlock device	Face plate	Shackle-Ø	Number of padlocks
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

STM

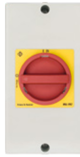


Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)



	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20, KG32 .... KL51V		85	2 x 20/25	20			150	82	4,2	160		17	
KG41, KG64 .... KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG80, KG100 .... KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG125, KG160 ....STM	88	280	2 x 63 1 x 20			254	354	180	7,0	380		73	9
KG250, KG315 ....STM	88	380	2 x 20		1 x 28-60 [2]	354	534	180	7,0	560	110	73	9
C316 ....STM	130	280	2 x 20		1 x 28-60 [2]	254	534	230	7,0	560	110	86,5	9,2

[2] Range of usable outside cable diameter



Plastic enclosures ▸ 4-pole + 1 NO/NC, IP66 /IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

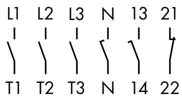
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
4-pole	**3 x 400 V**	**2 Auxiliary contacts (1 NO, 1 NC)**		
20 A	5,5 kW	KG10.T204/40.KS51V	**70020231**	
25 A	7,5 kW	KG20.T204/40.KL51V	**70011285**	
32 A	11 kW	KG32.T204/40.KL51V	**70025127**	
40 A	15 kW	KG41.T204/40.KL11V	**70010020**	
63 A	22 kW	KG64.T204/40.KL11V	**70019031**	
80 A	30 kW	KG80.T204/40.KL71V	**70010120**	
100 A	37 kW	KG100.T204/40.KL71V	**70011558**	
125 A	45 kW	KG125.T204/43.STM [1]	**70024742**	
160 A	55 kW	KG160.T204/43.STM [1]	**70022346**	
250 A	90 kW	KG250.T204/48.STM [1, 2]	**70025957**	
315 A	110 kW	KG315.T204/48.STM [1, 2]	**70025959**	
315 A	132 kW	C316.T204/46.STM [1, 2]	**70038971**	

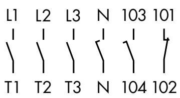
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
4-pole	**3 x 400 V**	**2 Auxiliary contacts (1 NO, 1 NC)**		
20 A	5,5 kW	KG10.T104/40.KS51V	**70009296**	
25 A	7,5 kW	KG20.T104/40.KL51V	**70011453**	
32 A	11 kW	KG32.T104/40.KL51V	**70024964**	
40 A	15 kW	KG41.T104/40.KL11V	**70010308**	
63 A	22 kW	KG64.T104/40.KL11V	**70011194**	
80 A	30 kW	KG80.T104/40.KL71V	**70010160**	
100 A	37 kW	KG100.T104/40.KL71V	**70011358**	
125 A	45 kW	KG125.T104/43.STM [1]	**70018660**	
160 A	55 kW	KG160.T104/43.STM [1]	**70041148**	
250 A	90 kW	KG250.T104/48.STM [1, 2]	**70025955**	
315 A	110 kW	KG315.T104/48.STM [1, 2]	**70025972**	
315 A	132 kW	C316.T104/46.STM [1, 2]	**70041149**	

[1] Protection class IP66/67 | [2] switch enclosure with rubber sealed cable entry neck. additional cable fixing outside mandatory!
Larger enclosures on request.

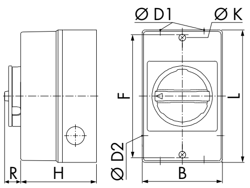
KG



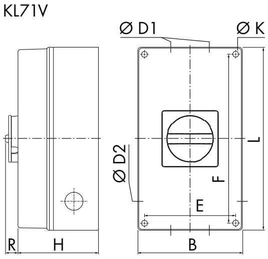
C316



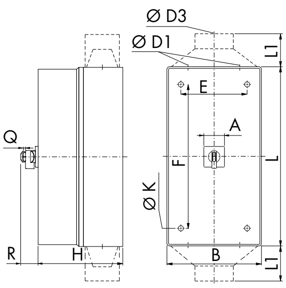
KS51V, KL51V, KL11V



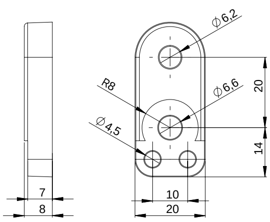
KL71V



STM



Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)



Maximum number of padlocks			
Padlock device	**Face plate**	**Shackle-Ø**	**Number of padlocks**
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20, KG32 .... KL51V		85	2 x 20/25	20			150	82	4,2	160		17	
KG41, KG64 .... KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG80, KG100 .... KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG125, KG160 ....STM	88	280	2 x 63 1 x 20			254	354	180	7,0	380		73	9
KG250, KG315 ....STM	88	380	2 x 20		1 x 28-60 [2]	354	534	180	7,0	560	110	73	9
C316 ....STM	130	280	2 x 20		1 x 28-60 [2]	254	534	230	7,0	560	110	86,5	9,2

[2] Range of usable outside cable diameter

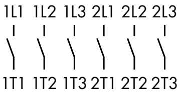
MAIN, SAFETY AND MAINTENANCE SWITCH

Plastic enclosures ▸ 6-pole, IP66 /IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

Similar image

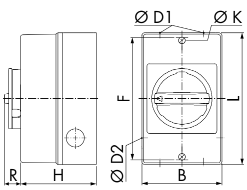
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
6-pole	**3 x 400 V**			
20 A	5,5 kW	KG10.T206/33.KS51V	**70027407**	
25 A	7,5 kW	KG20B.T206/33.KL11V	**70019111**	
32 A	11 kW	KG32B.T206/33.KL11V	**70019227**	
40 A	15 kW	KG41B.T206/33.KL71V	**70019243**	
63 A	22 kW	KG64B.T206/33.KL71V	**70019250**	
80 A	30 kW	KG80C.T206/34.STM[2]	**70011072**	
100 A	37 kW	KG100C.T206/34.STM[2]	**70019060**	
125 A	45 kW	KG125.T206/87.STM[2]	**70022690**	
160 A	55 kW	KG160.T206/87.STM[2]	**70022868**	
275A	132 kW	C316.T206/47.STM[1, 3]	**70022869**	



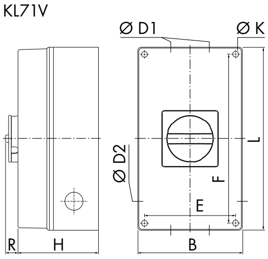
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
6-pole	**3 x 400 V**			
20 A	5,5 kW	KG10.T106/33.KS51V	**70008689**	
25 A	7,5 kW	KG20B.T106/33.KL11V	**70019103**	
32 A	11 kW	KG32B.T106/33.KL11V	**70019222**	
40 A	15 kW	KG41B.T106/33.KL71V	**70019240**	
63 A	22 kW	KG64B.T106/33.KL71V	**70019246**	
80 A	30 kW	KG80C.T106/34.STM[2]	**70019256**	
100 A	37 kW	KG100C.T106/34.STM[2]	**70018666**	
125 A	45 kW	KG125.T106/87.STM[2]	**70048692**	
160 A	55 kW	KG160.T106/87.STM[2]	**70022101**	
275A	132 kW	C316.T106/47.STM[1, 3]	**70048613**	

[1] Protection Class IP66/67 | [2] Protection Class IP65 |
[3] switch enclosure with rubber sealed cable entry neck. Additional cable fixing outside mandatory!
Larger enclosures on request.

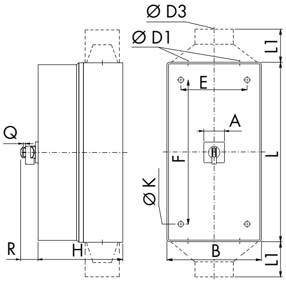
KS51V, KL11V



KL71V



STM

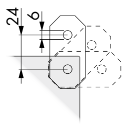


Maximum number of padlocks			
Padlock device	**Face plate**	**Shackle-Ø**	**Number of padlocks**
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

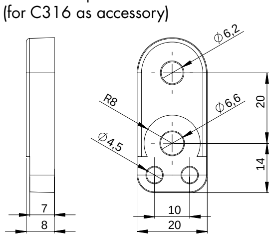
	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20B, KG32B KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG41B, KG64B KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG80C, KG100C ....STM	88	200	2 x 40/50 3 x 20			172	272	172		300		49,3	
KG125, KG160 .... STM	88	300	2 x 63 1 x 20			272	372	172		400		73	9
C316 ....STM	130	380	2 x 20		2 x 28-60[3]	354	534	280	7	560	110	86,5	9,2

[3] Range of usable outside cable diameter

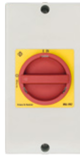
Mounting kits
2147380 | ST7 M100 P
(for KG80C – KG160 included)



2018045 | ST6.A000.G
(for C316 as accessory)



Plastic enclosures ▸ 6-pole + 1 NO/NC, IP66/IP67/IP69k

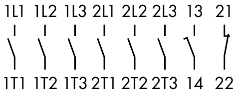


Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

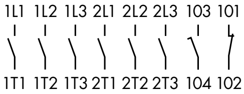
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
6-pole	**3 x 400 V**	**2 Auxiliary contacts (1 NO, 1 NC)**		
20 A	5,5 kW	KG10.T206/40.KS51V	**70008385**	
25 A	7,5 kW	KG20B.T206/40.KL11V	**70010788**	
32 A	11 kW	KG32B.T206/40.KL11V	**70011052**	
40 A	15 kW	KG41B.T206/40.KL71V	**70010790**	
63 A	22 kW	KG64B.T206/40.KL71V	**70010022**	
80 A	30 kW	KG80C.T206/41.STM[2]	**70010789**	
100 A	37 kW	KG100C.T206/41.STM[2]	**70010829**	
125 A	45 kW	KG125.T206/91.STM[2]	**70020770**	
160 A	55 kW	KG160.T206/91.STM[2]	**70020291**	
275A	132 kW	C316.T206/48.STM[1, 3]	**70022691**	

KG



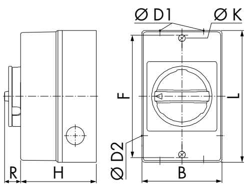
C316



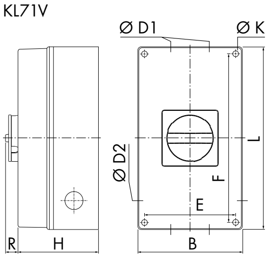
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
6-pole	**3 x 400 V**	**2 Auxiliary contacts (1 NO, 1 NC)**		
20 A	5,5 kW	KG10.T106/40.KS51V	**70008829**	
25 A	7,5 kW	KG20B.T106/40.KL11V	**70012802**	
32 A	11 kW	KG32B.T106/40.KL11V	**70012742**	
40 A	15 kW	KG41B.T106/40.KL71V	**70012738**	
63 A	22 kW	KG64B.T106/40.KL71V	**70012731**	
80 A	30 kW	KG80C.T106/41.STM[2]	**70014372**	
100 A	37 kW	KG100C.T106/41.STM[2]	**70012786**	
125 A	45 kW	KG125.T106/91.STM[2]	**70020520**	
160 A	55 kW	KG160.T106/91.STM[2]	**70020173**	
275A	132 kW	C316.T106/48.STM[1, 3]	**70028494**	

[1] Protection class IP66/67 | [2] Protection class IP65 |
[3] switch enclosure with rubber sealed cable entry neck. Additional cable fixing outside mandatory!
Larger enclosures on request.

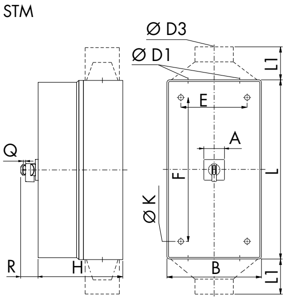
KS51V, KL11V



KL71V



STM

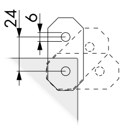


Maximum number of padlocks			
Padlock device	**Face plate**	**Shackle-Ø**	**Number of padlocks**
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

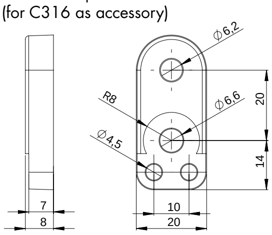
	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20B, KG32B KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG41B, KG64B KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG80C, KG100C ....STM	88	200	2 x 40/50 3 x 20			172	272	172		300		49,3	
KG125, KG160 .... STM	88	300	2 x 63 1 x 20			272	372	172		400		73	9
C316 ....STM	130	380	2 x 20		2 x 28-60[3]	354	534	280	7	560	110	86,5	9,2

[3] Range of usable outside cable diameter

Mounting kits
2147380 | ST7 M100 P
(for KG80C – KG160 included)



2018045 | ST6.A000.G
(for C316 as accessory)



In plastic enclosure ▸ 3-pole, IP66/IP67/IP69k

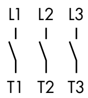
Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

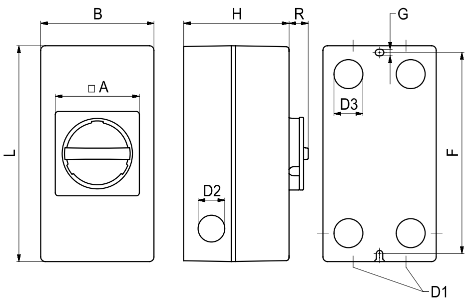
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	3 x 400 V			
40 A	20 kW	KA40.T203/33.KL11V	**70024341**	
63 A	22 kW	KA63.T203/33.KL11V	**70030991**	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	3 x 400 V			
40 A	20 kW	KA40.T103/33.KL11V	**70024323**	
63 A	22 kW	KA63.T103/33.KL11V	**70031142**	

Larger enclosures on request.



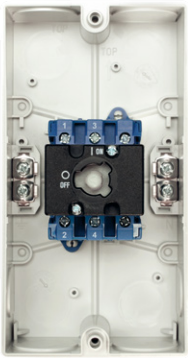


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
74 x 74	7–8	3

A	B	D1	D2	D3	F	G	H	L	R
74	100	M25	M25	M25	178	5,6	93	190	17

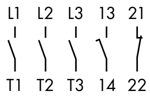
In plastic enclosure ▸ 3-pole + 1 NO/NC, IP66/IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space



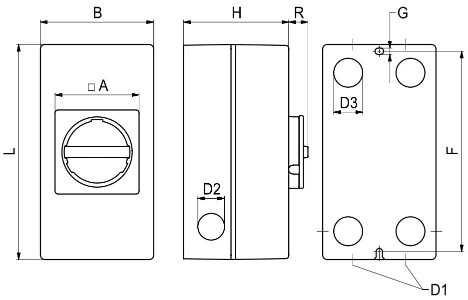
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	3 x 400 V	2 Auxiliary contacts (1 NO, 1 NC)		
40 A	20 kW	KA40.T203/40.KL11V	**70012698**	
63 A	22 kW	KA63.T203/40.KL11V	**70024498**	



Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	3 x 400 V	2 Auxiliary contacts (1 NO, 1 NC)		
40 A	20 kW	KA40.T103/40.KL11V	**70012697**	
63 A	22 kW	KA63.T103/40.KL11V	**70024497**	

Larger enclosures on request.



Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
74 x 74	7–8	3

A	B	D1	D2	D3	F	G	H	L	R
74	100	M25	M25	M25	178	5,6	93	190	17

MAIN, SAFETY AND MAINTENANCE SWITCH

In plastic enclosure ▸ 4-pole, IP66/IP67/IP69k

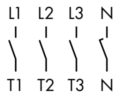
Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

Similar image

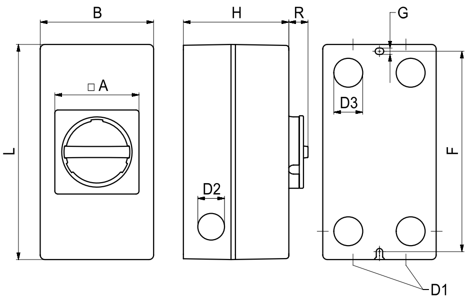
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
4-pole	**3 x 400 V**			
40 A	20 kW	KA40.T204/33.KL11V	**70024353**	
63 A	22 kW	KA63.T204/33.KL11V	**70026811**	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
4-pole	**3 x 400 V**			
40 A	20 kW	KA40.T104/33.KL11V	**70031494**	
63 A	22 kW	KA63.T104/33.KL11V	**70031315**	

Larger enclosures on request.



Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
74 x 74	7–8	3



A	B	D1	D2	D3	F	G	H	L	R
74	100	M20/25	M25	M25	178	5,6	93	190	17

In plastic enclosure ▸ 4-pole + 1 NO/NC, IP66/IP67/IP69k

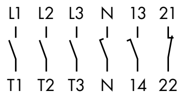
Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

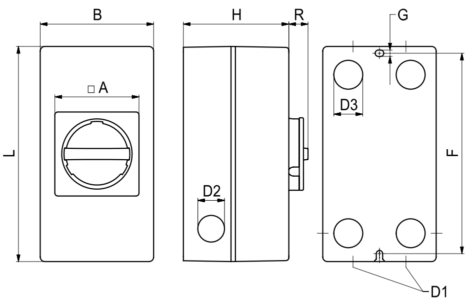
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
4-pole	3 x 400 V	2 Auxiliary contacts (1 NO, 1 NC)		
40 A	20 kW	KA40.T204/40.KL11V	**70031042**	
63 A	22 kW	KA63.T204/40.KL11V	**70049577**	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
4-polig	3 x 400 V	2 Auxiliary contacts (1 NO, 1 NC)		
40 A	20 kW	KA40.T104/40.KL11V	**70029017**	
63 A	22 kW	KA63.T104/40.KL11V	**70049575**	

Larger enclosures on request.



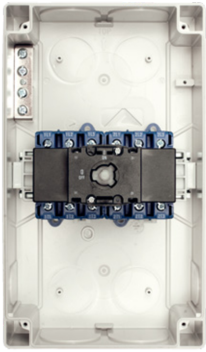


Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
74 x 74	7–8	3

A	B	D1	D2	D3	F	G	H	L	R
74	100	M20/25	M25	M25	178	5,6	93	190	17

In plastic enclosure ▸ 6-pole, IP66/IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

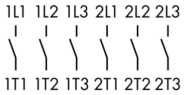


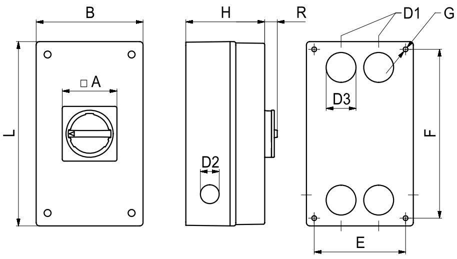
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
6-pole	**3 x 400 V**			
40 A	20 kW	KA40B.T206/33.KL71V	**70035143**	
63 A	22 kW	KA63B.T206/33.KL71V	**70035142**	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
6-pole	**3 x 400 V**			
40 A	20 kW	KA40B.T106/33.KL71V	**70035129**	
63 A	22 kW	KA63B.T106/33.KL71V	**70035157**	

Larger enclosures on request.



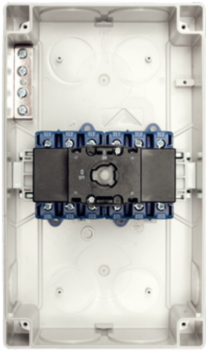


Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
74 x 74	7–8	3

A	B	D1	D2	D3	E	F	G	H	L	R
74	145	M25/40	M25	M40	124	229	6,5	107	250	17

In plastic enclosure ▸ 6-pole + 1 NO/NC, IP66/IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

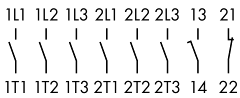


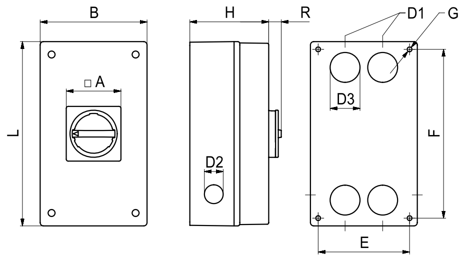
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
6-polig	3 x 400 V	2 Auxiliary contacts (1 NO, 1 NC)		
40 A	20 kW	KA40B.T206/40.KL71V	**70035155**	
63 A	22 kW	KA63B.T206/40.KL71V	**70035126**	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
6-polig	3 x 400 V	2 Auxiliary contacts (1 NO, 1 NC)		
40 A	20 kW	KA40B.T106/40.KL71V	**70035139**	
63 A	22 kW	KA63B.T106/40.KL71V	**70035150**	

Larger enclosures on request.





Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
74 x 74	7–8	3

A	B	D1	D2	D3	E	F	G	H	L	R
74	145	M25/40	M25	M40	124	229	6,5	107	250	17

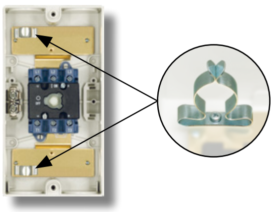
For EMC-compliant connection ▸ 3-pole + 1 NO/NC, IP66/IP67/IP69k

EMC

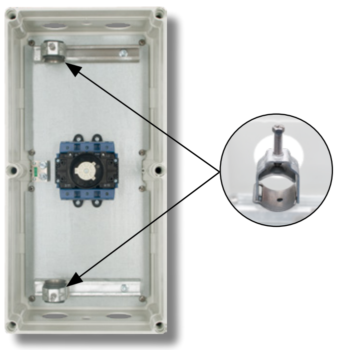
3-pole + 1NO/NC

Plastic enclosures EMC-compliant KG series

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space



KS/KL



Similar image

STM

Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

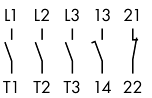
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	3-pole	3 x 400 V			
M25	20 A	5,5 kW	KG10.T203/D-A076.KS51V	**70008610**	
M25	25 A	7,5 kW	KG20.T203/D-A159.KL51V	**70011109**	
M25	32 A	11 kW	KG32.T203/D-A117.KL51V	**70010424**	
M25	40 A	15 kW	KG41.T203/D-A145.KL11V [3]	**70011035**	
M25	63 A	22 kW	KG64.T203/D-A173.KL11V [3]	**70010412**	
M40	80 A	30 kW	KG80.T203/D-A108.KL71V	**70010474**	
M40	100 A	37 kW	KG100.T203/D-A120.KL71V	**70011306**	
M63	125 A	45 kW	KG125.T203/D-A082.STM [1]	**70021607**	
M63	160 A	55 kW	KG160.T203/D-A077.STM [1]	**70011325**	
M63	250 A	90 kW	KG250.T203/D-A075.STM [1]	**70015149**	
28-60 mm	315 A	110 kW	KG315.T203/D-A034.STM [1, 2]	**70010413**	
M72	315 A	132 kW	C316.T203/D-A037.STM [1]	**70021610**	

[1] Protection class IP66/67 | [2] Switch enclosure with rubber sealed cable entry neck. additional cable fixing outside mandatory!
[3] For the successor product, see KA switch

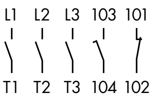
Notice:

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL-enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

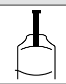
KG



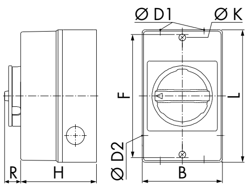
C316



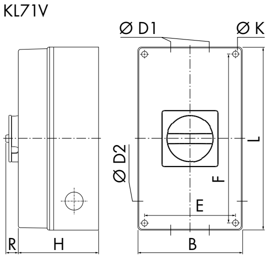
Cable-Ø shield

	KG10	9 – 11
	KG20 – KG64	12 – 16
	KG80/KG100	23 – 29
	KG125 – KG250	34 – 40
	KG315/C316	46 – 52

KS51V, KL51V, KL11V



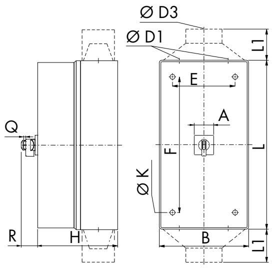
KL71V



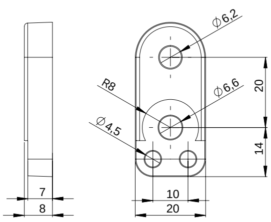
Maximum number of padlocks

Padlock device	Face plate	Shackle-Ø	Number of padlocks
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

STM



Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)

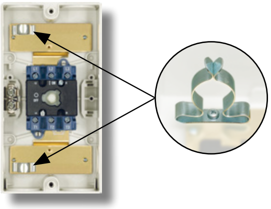


	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20, KG32 ... KL51V		85	2 x 20/25	20			150	82	4,2	160		17	
KG41, KG64 ... KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG80, KG100 ... KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG125, KG160, KG250 ... STM	88	280	2 x 63 1 x 20			254	534	180	7	560		73	9
KG315 ... STM	88	280	2 x 20		1 x 28-60 [2]	254	534	180	7	560	110	73	9
C316 ... STM	130	380	2 x 72 1 x 20			354	534	280	7	560		86,5	9,2

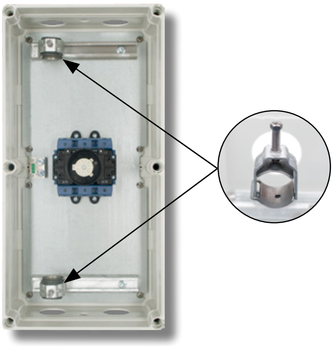
[2] Range of usable outside cable diameter

For EMC-compliant connection ▸ 3-pole + 1 NO/NC, IP66 /IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space



KS/KL



Similar image

STM

Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

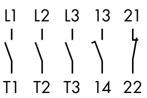
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	3-pole	**3 x 400 V**			
M25	20 A	5,5 kW	KG10.T103/D-A050.KS51V	**70000182**	
M25	25 A	7,5 kW	KG20.T103/D-A126.KL51V	**70011021**	
M25	32 A	11 kW	KG32.T103/D-A061.KL51V	**70016584**	
M25	40 A	15 kW	KG41.T103/D-A087.KL11V [3]	**70010822**	
M25	63 A	22 kW	KG64.T103/D-A103.KL11V [3]	**70011888**	
M40	80 A	30 kW	KG80.T103/D-A061.KL71V	**70011304**	
M40	100 A	37 kW	KG100.T103/D-A068.KL71V	**70022094**	
M63	125 A	45 kW	KG125.T103/D-A070.STM [1]	**70022095**	
M63	160 A	55 kW	KG160.T103/D-A066.STM [1]	**70019588**	
M63	250 A	90 kW	KG250.T103/D-A073.STM [1]	**70021751**	
28-60 mm	315 A	110 kW	KG315.T103/D-A043.STM [1, 2]	**70022022**	
M72	315 A	132 kW	C316.T103/D-A025.STM [1]	**70021721**	

[1] Protection class IP66/67 | [2] Switch enclosure with rubber sealed cable entry neck. additional cable fixing outside mandatory!
[3] For the successor product, see KA switch

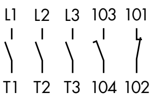
Notice:

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL-enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

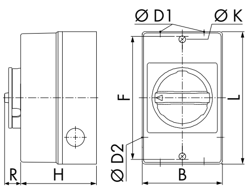
KG



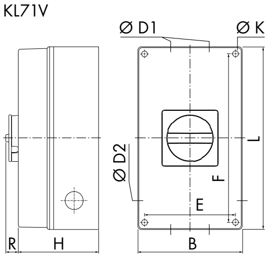
C316



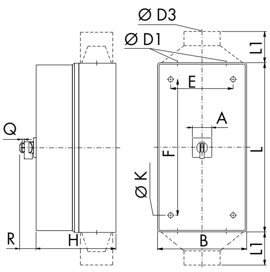
KS51V, KL51V, KL11V



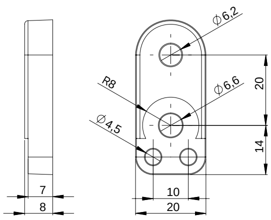
KL71V

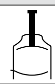


STM



Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)



Cable-Ø shield		
	KG10	9 – 11
	KG20 – KG64	12 – 16
	KG80/KG100	23 – 29
	KG125 – KG250	34 – 40
	KG315/C316	46 – 52

Maximum number of padlocks

Padlock device	Face plate	Shackle-Ø	Number of padlocks
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20, KG32 ... KL51V		85	2 x 20/25	20			150	82	4,2	160		17	
KG41, KG64 ... KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG80, KG100 ... KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG125, KG160, KG250 ... STM	88	280	2 x 63 1 x 20			254	534	180	7	560		73	9
KG315 ... STM	88	280	2 x 20		1 x 28-60 [2]	254	534	180	7	560	110	73	9
C316 ... STM	130	380	2 x 72 1 x 20			354	534	280	7	560		86,5	9,2

[2] Range of usable outside cable diameter

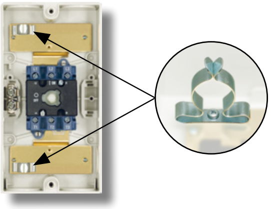
For EMC-compliant connection ▸ 4-pole + 1 NO/NC, IP66/IP67/IP69k

EMC

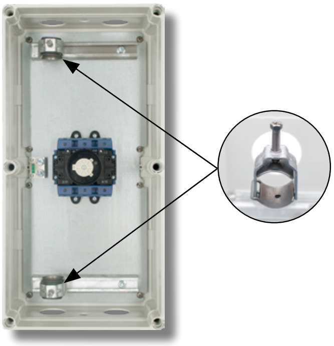
4-pole + 1NO/NC

Plastic enclosures EMC-compliant KG series

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space



KS/KL



Similar image

STM

Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

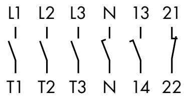
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	4-pole	3 x 400 V			
M25	20 A	5,5 kW	KG10.T204/D-A020.KS51V	**70048624**	
M25	25 A	7,5 kW	KG20.T204/D-A044.KL51V	**70040018**	
M25	32 A	11 kW	KG32.T204/D-A026.KL51V	**70049346**	
M25	40 A	15 kW	KG41.T204/D-A035.KL11V	**70030038**	
M25	63 A	22 kW	KG64.T204/D-A087.KL11V	**70048093**	
M40	80 A	30 kW	KG80.T204/D-W006.KL71V	**70059784**	
M40	100 A	37 kW	KG100.T204/D-A063.KL71V	**70059785**	
M63	125 A	45 kW	KG125.T204/D-A022.STM [1]	**70029674**	
M63	160 A	55 kW	KG160.T204/D-A035.STM [1]	**70025326**	
M63	250 A	90 kW	KG250.T204/D-A024.STM [1]	**70053264**	
28-60 mm [1]	315 A	110 kW	On request		
M72	315 A	132 kW	On request		

[1] Protection class IP66/67 | [2] Switch enclosure with rubber sealed cable entry neck. additional cable fixing outside mandatory!

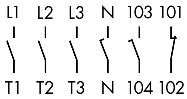
Notice:

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL-enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

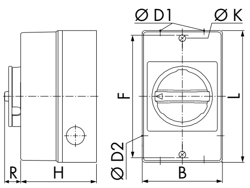
KG



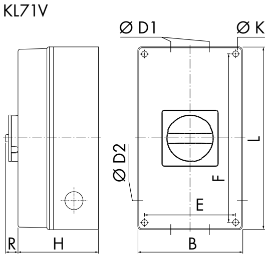
C316



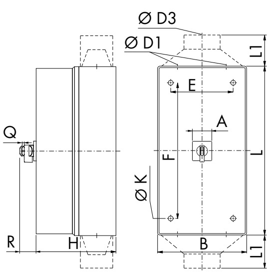
KS51V, KL51V, KL11V



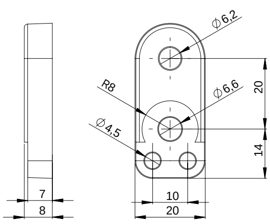
KL71V

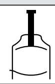


STM



Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)



Cable-Ø shield		
	KG10	9 – 11
	KG20 – KG64	12 – 16
	KG80/KG100	23 – 29
	KG125 – KG250	34 – 40
	KG315/C316	46 – 52

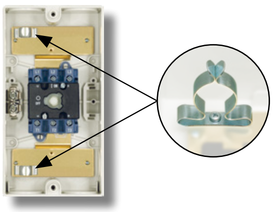
Maximum number of padlocks			
Padlock device	Face plate	Shackle-Ø	Number of padlocks
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 … KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20, KG32 … KL51V		85	2 x 20/25	20			150	82	4,2	160		17	
KG41, KG64 … KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG80, KG100 … KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG125, KG160, KG250 … STM	88	280	2 x 63 1 x 20			254	534	180	7	560		73	9
KG315 … STM	88	280	2 x 20		1 x 28-60 [2]	254	534	180	7	560	110	73	9
C316 … STM	130	380	2 x 72 1 x 20			354	534	280	7	560		86,5	9,2

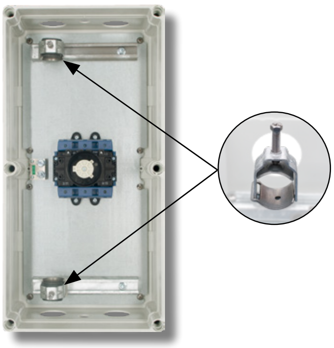
[2] Range of usable outside cable diameter

For EMC-compliant connection ▸ 4-pole + 1 NO/NC, IP66 /IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space



KS/KL



Similar image

STM

Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

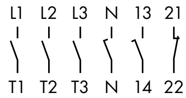
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	4-pole	3 x 400 V			
M25	20 A	5,5 kW	KG10.T104/D-A008.KS51V	**70027405**	
M25	25 A	7,5 kW	KG20.T104/D-A021.KL51V	**70026478**	
M25	32 A	11 kW	KG32.T104/D-A022.KL51V	**70025399**	
M25	40 A	15 kW	KG41.T104/D-A023.KL11V	**70048879**	
M25	63 A	22 kW	KG64.T104/D-A060.KL11V	**70053209**	
M40	80 A	30 kW	KG80.T104/D-A036.KL71V	**70059786**	
M40	100 A	37 kW	KG100.T104/D-A043.KL71V	**70046133**	
M63	125 A	45 kW	KG125.T104/D-A021.STM [1]	**70059787**	
M63	160 A	55 kW	KG160.T104/D-A033.STM [1]	**70102741**	
M63	250 A	90 kW	KG250.T104/D-A026.STM [1]	**70020243**	
28-60 mm [1]	315 A	110 kW	On request		
M72	315 A	132 kW	On request		

[1] Protection class IP66/67 | [2] Switch enclosure with rubber sealed cable entry neck. additional cable fixing outside mandatory!

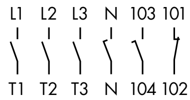
Notice:

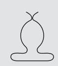
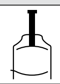
Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL-enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

KG

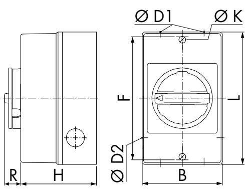


C316

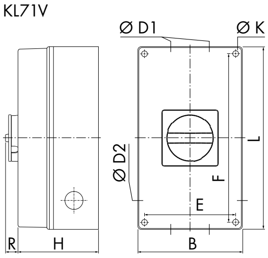


Cable-Ø shield		
	KG10	9 – 11
	KG20 – KG64	12 – 16
	KG80/KG100	23 – 29
	KG125 – KG250	34 – 40
	KG315/C316	46 – 52

KS51V, KL51V, KL11V

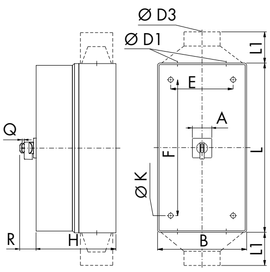


KL71V

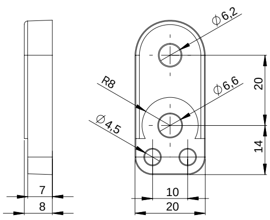


Maximum number of padlocks			
Padlock device	**Face plate**	**Shackle-Ø**	**Number of padlocks**
	74 x 74	9	3
	88 x 88	9	4
	130 x 130	9	4

STM



Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)

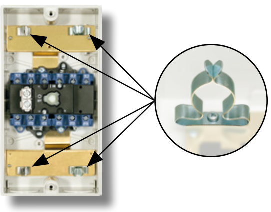


	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KS51V		86	2 x 20/25	20			110	90	4,2	121		17	
KG20, KG32 ... KL51V		85	2 x 20/25	20			150	82	4,2	160		17	
KG41, KG64 ... KL11V		100	2 x 25	25			178	93	5,6	190		17	
KG80, KG100 ... KL71V		145	2 x 40/25	25		124	229	107	6,5	250		17	
KG125, KG160, KG250 ... STM	88	280	2 x 63 1 x 20			254	534	180	7	560		73	9
KG315 ... STM	88	280	2 x 20		1 x 28-60 [2]	254	534	180	7	560	110	73	9
C316 ... STM	130	380	2 x 72 1 x 20			354	534	280	7	560		86,5	9,2

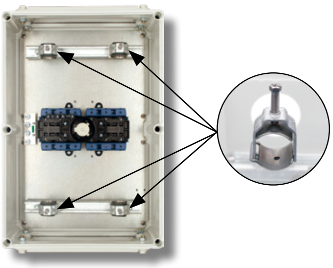
[2] Range of usable outside cable diameter

For EMC-compliant connection ▸ 6-pole + 1 NO/NC, IP66/IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space



KL



Similar image

STM

Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

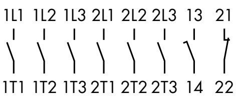
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	6-pole	3 x 400 V			
M25	25 A	7,5 kW	KG20B.T206/D-A059.KL11V	**70011049**	
M25	32 A	11 kW	KG32B.T206/D-A054.KL11V	**70011051**	
M40	40 A	15 kW	KG41B.T206/D-A052.KL71V [2]	**70029381**	
M40	63 A	22 kW	KG64B.T206/D-A066.KL71V [2]	**70019521**	
M50	80 A	30 kW	KG80C.T206/D-A070.STM [1]	**70022583**	
M50	100 A	37 kW	KG100C.T206/D-A060.STM [1]	**70022584**	
M63	125 A	45 kW	KG125.T206/D-A020.STM [1]	**70022585**	
M63	160 A	55 kW	KG160.T206/D-A040.STM [1]	**70022587**	
M63	200 A	75 kW	C200-4.T206/D-A001.STM [1]	**70009765**	
M72	275 A	132 kW	C316.T206/D-A050.STM [1]	**70027327**	

[1] Protection class IP66/67 | [2] For the successor product, see KA switch

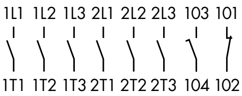
Notice:

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL-enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

KG

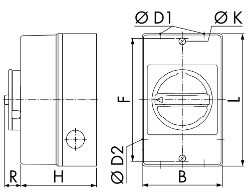


C200-4/C316

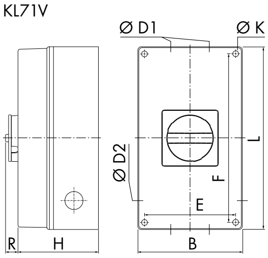


Cable-Ø shield		
	KG20B/KG32B	12 – 16
	KG41B/KG64B	23 – 29
	KG80C/KG100C	28 – 34
	KG125/KG160/C200-4	34 – 40
	C316	46 – 52

KL11V

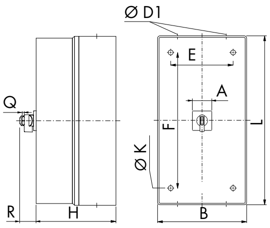


KL71V

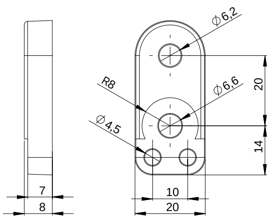


Maximum number of padlocks			
Padlock device	Face plate	Shackle-Ø	Number of padlocks
	74 x 74	9	3
	88 x 88	10	3
	88 x 88	9	4
	130 x 130	9	4

STM



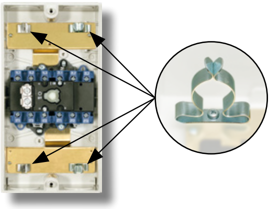
Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)



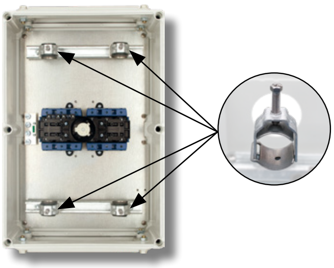
	A	B	D1	D2	E	F	H	K	L	R	Q
KG20B, KG32B ... KL11V		100	2 x 25	25		178	93	5,6	190	17	
KG41B, KG64B ... KL71V		145	2 x 40/25	25	124	229	107	6,5	250	17	
KG80C, KG100C ....STM	88	280	2 x 50 1 x 20		254	354	180	7	380	49,3	10
KG125, KG160 ....STM	88	380	2 x 63 1 x 20		354	534	180	7	560	73	9
C200-4 ....STM	88	380	2 x 63 1 x 20		354	534	230	7	560	73	9
C316 ....STM	130	380	2 x 72 1 x 20		354	534	280	7	560	86,5	9,2

For EMC-compliant connection ▸ 6-pole + 1 NO/NC, IP66/IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space



KL



Similar image

STM

Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

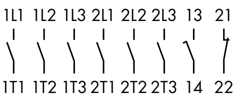
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	6-pole	3 x 400 V			
M25	25 A	7,5 kW	KG20B.T106/D-A046.KL11V	**70011881**	
M25	32 A	11 kW	KG32B.T106/D-A040.KL11V	**70033788**	
M40	40 A	15 kW	KG41B.T106/D-A032.KL71V	**70026033**	
M40	63 A	22 kW	KG64B.T106/D-A038.KL71V	**70011773**	
M50	80 A	30 kW	KG80C.T106/D-A055.STM [1]	**70020989**	
M50	100 A	37 kW	KG100C.T106/D-A049.STM [1]	**70022588**	
M63	125 A	45 kW	KG125.T106/D-A031.STM [1]	**70022589**	
M63	160 A	55 kW	KG160.T106/D-A024.STM [1]	**70022590**	
M63	200 A	75 kW	C200-4.T106/D-A001.STM [1]	**70023125**	
M72	275 A	132 kW	C316.T106/D-A033.STM [1]	**70026633**	

[1] Protection class IP66/67

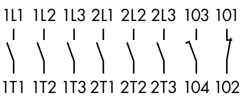
Notice:

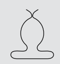
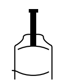
Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL-enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

KG

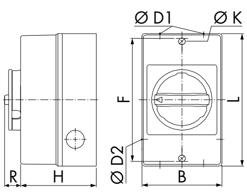


C200-4/C316

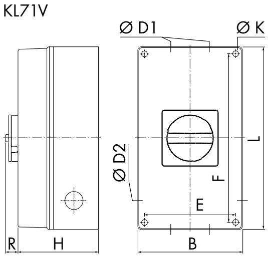


Cable-Ø shield		
	KG20B/KG32B	12 – 16
	KG41B/KG64B	23 – 29
	KG80C/KG100C	28 – 34
	KG125/KG160/C200-4	34 – 40
	C316	46 – 52

KL11V

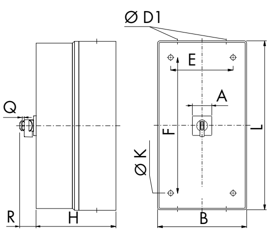


KL71V

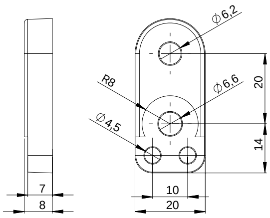


Maximum number of padlocks			
Padlock device	Face plate	Shackle-Ø	Number of padlocks
	74 x 74	9	3
	88 x 88	10	3
	88 x 88	9	4
	130 x 130	9	4

STM



Mounting kit
2018045 | ST6.A000.G
(for KG125 – C316 as accessory)



	A	B	D1	D2	E	F	H	K	L	R	Q
KG20B, KG32B ... KL11V		100	2 x 25	25		178	93	5,6	190	17	
KG41B, KG64B ... KL71V		145	2 x 40/25	25	124	229	107	6,5	250	17	
KG80C, KG100C ... STM	88	280	2 x 50 1 x 20		254	354	180	7	380	49,3	10
KG125, KG160 ... STM	88	380	2 x 63 1 x 20		354	534	180	7	560	73	9
C200-4 ... STM	88	380	2 x 63 1 x 20		354	534	230	7	560	73	9
C316 ... STM	130	380	2 x 72 1 x 20		354	534	280	7	560	86,5	9,2

EMC

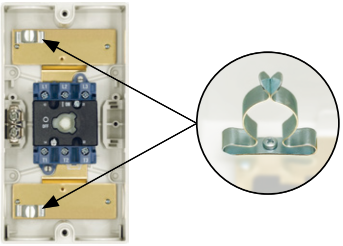
6-pole + 1NO/NC

Plastic enclosures EMC-compliant KG series

MAIN, SAFETY AND MAINTENANCE SWITCH

For EMC-compliant connection ▸ 3-pole + 1 NO/NC, IP66 /IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

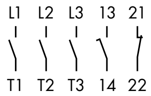


Similar image

Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

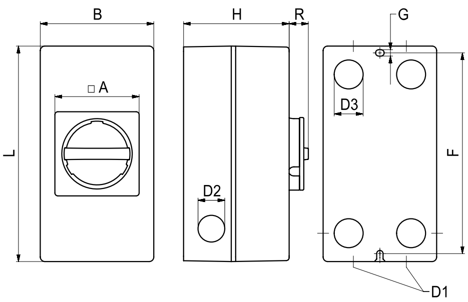
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	3-pole	3 x 400 V			
M25	40 A	20 kW	KA40.T203/E1.KL11V	**70031247**	
M25	63 A	22 kW	KA63.T203/E1.KL71V	**70031244**	



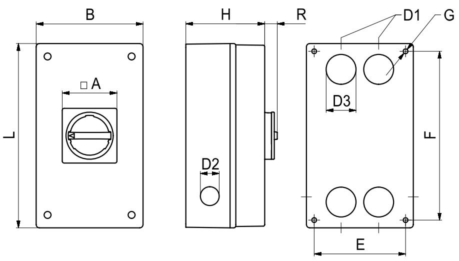
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	3-pole	3 x 400 V			
M25	40 A	20 kW	KA40.T103/E1.KL11V	**70031241**	
M25	63 A	22 kW	KA63.T103/E1.KL71V	**70031252**	

Larger enclosures on request.

KL11V

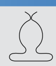


KL71V



Notice:

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL-enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

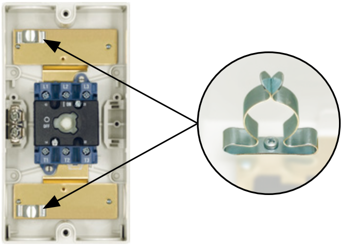
Cable-Ø shield		
	KL11V	12 – 16
	KL71V	23 – 29

Maximum number of padlocks		
Face plate	Shackle-Ø	Number of padlocks
74 x 74	7 – 8	3

	A	B	D1	D2	D3	E	F	G	H	L	R
KL11V	74	100	M25	M25	M25	–	178	5,6	93	190	17
KL71V	74	145	M25/40	M25	M40	124	229	6,5	107	250	17

For EMC-compliant connection ▸ 4-pole + 1 NO/NC, IP66/IP67/IP69k

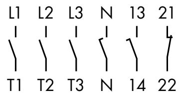
Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space


Similar image

Notice: The outside-Ø is bigger for shielded cables

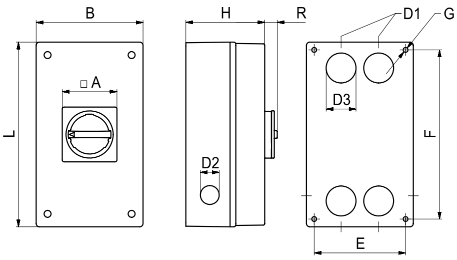
with Auxiliary contacts (1 NO + 1 NC)

Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	4-pole	3 x 400 V			
M25	40 A	20 kW	KA40.T204/E1.KL71V	**70031246**	
M25	63 A	22 kW	KA63.T204/E1.KL71V	**70031243**	



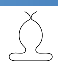
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	4-pole	3 x 400 V			
M25	40 A	20 kW	KA40.T104/E1.KL71V	**70031250**	
M25	63 A	22 kW	KA63.T104/E1.KL71V	**70031248**	

Larger enclosures on request.



Notice:

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL-enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

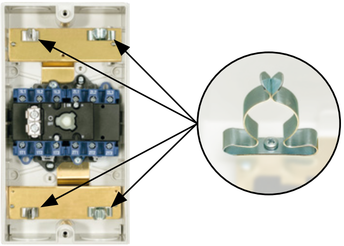
Cable-Ø shield		
	KL71V	23 – 29

Maximum number of padlocks		
Face plate	Shackle-Ø	Number of padlocks
74 x 74	7 – 8	3

	A	B	D1	D2	D3	E	F	G	H	L	R
KL71V	74	145	M25/40	M25	M40	124	229	6,5	107	250	17

For EMC-compliant connection ▸ 6-pole + 1 NO/NC, IP66/IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

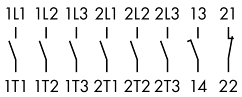


Similar image

Notice: The outside-Ø is bigger for shielded cables

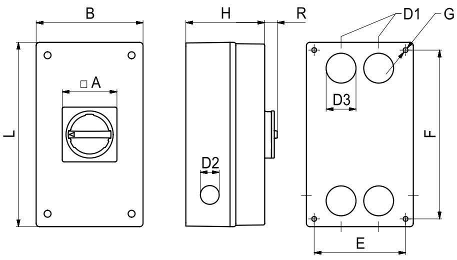
with Auxiliary contacts (1 NO + 1 NC)

Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	6-pole	3 x 400 V			
M40	40 A	20 kW	KA40B.T206/E1.KL71V	**70038156**	
M40	63 A	22 kW	KA63B.T206/E1.KL71V	**70039502**	



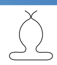
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	6-pole	3 x 400 V			
M40	40 A	20 kW	KA40B.T106/E1.KL71V	**70037283**	
M40	63 A	22 kW	KA63B.T106/E1.KL71V	**70037281**	

Larger enclosures on request.



Notice:

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL-enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

Cable-Ø shield		
	KL71V	23 – 29

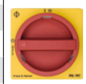
Maximum number of padlocks		
Face plate	Shackle-Ø	Number of padlocks
74 x 74	7 – 8	3

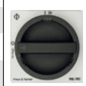
	A	B	D1	D2	D3	E	F	G	H	L	R
KL71V	74	145	M25/40	M25	M40	124	229	6,5	107	250	17

Plastic enclosure ▸ 3-pole + 1 NO/NC, IP66/IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	**3 x 400 V**	**2 Auxilliary contacts (1 NO, 1 NC)**		
20 A	5,5 kW	KG10.T203/WASI02.KL52V	**70011002**	
25 A	7,5 kW	KG20.T203/WASI02.KL12V	**70011509**	
32 A	11 kW	KG32.T203/WASI02.KL12V	**70011510**	
40 A	15 kW	KG41.T203/WASI02.KL12V	**70011511**	
63 A	22 kW	KG64.T203/WASI02.KL12V	**70011512**	
80 A	30 kW	KG80.T203/WASI02.KL72V	**70011513**	
100 A	37 kW	KG100.T203/WASI02.KL72V	**70011514**	
125 A	45 kW	KG125.T203/WASI02.STM [1]	**70011515**	
160 A	55 kW	KG160.T203/WASI02.STM [1]	**70011516**	
250 A	90 kW	KG250.T203/WASI02.STM [1]	**70011518**	
315 A	110 kW	KG315.T203/WASI02.STM [1]	**70011519**	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	**3 x 400 V**	**2 Auxilliary contacts (1 NO, 1 NC)**		
20 A	5,5 kW	KG10.T103/WASI02.KL52V	**70011461**	
25 A	7,5 kW	KG20.T103/WASI02.KL12V	**70011520**	
32 A	11 kW	KG32.T103/WASI02.KL12V	**70011521**	
40 A	15 kW	KG41.T103/WASI02.KL12V	**70011522**	
63 A	22 kW	KG64.T103/WASI02.KL12V	**70011523**	
80 A	30 kW	KG80.T103/WASI02.KL72V	**70011524**	
100 A	37 kW	KG100.T103/WASI02.KL72V	**70010899**	
125 A	45 kW	KG125.T103/WASI02.STM [1]	**70011525**	
160 A	55 kW	KG160.T103/WASI02.STM [1]	**70011526**	
250 A	90 kW	KG250.T103/WASI02.STM [1]	**70011527**	
315 A	110 kW	KG315.T103/WASI02.STM [1]	**70011528**	

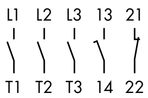
[1] Protection class IP66/67

Notice:

The safety switches according to DIN EN 62626-1 Class 0 are equipped with a cover interlock which allows the cover to be removed in position "I" only. The basic requirements of these devices are derived from switch disconnectors in accordance with IEC 60947-3. Furthermore, our safety switches according to DIN EN 62626-1 Class 0 have the following characteristics:

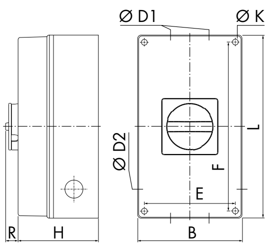
- IK06 impact resistance according to IEC 62262
- Ingress protection rating of IP66/67/69k according to IEC 60529
- AC-23A switching capacity according to IEC 60947-3
- Cover interlock, to prevent the opening of the enclosure in "OFF" position
- 3 times lockable in OFF position
- Moisture heat, salt mist and vibration test, category A according to IEC 60947-1 Annex Q

KG

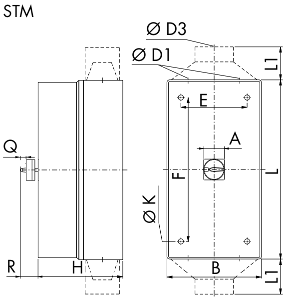


Maximum number of padlocks			
Padlock device	Face plate	Shackle-Ø	Number of padlocks
	74 x 74	9	3
	88 x 88	10	3

KL51V, KL11V, KL71V



STM



	A	B	D1	D2	D3	E	F	H	K	L	L1	R	Q
KG10 ... KL52V		85	2 x 20/25	20			150	82	4,2	160		17	
KG20, KG32 ... KL12V		85	2 x 20/25	20			150	82	4,2	160		17	
KG41, KG64 ... KL12V		100	2 x 25	25		124	178	93	5,6	190		17	
KG80, KG100 ... KL72V		145	2 x 25/40	25		254	229	107	6,5	250		17	
KG125, KG160 ....STM	88	280	2 x 63 1 x 20			254	354	180	7,0	380		49	9
KG250, KG315 ....STM	88	280	2 x 20/25		1 x 28-60 [2]		534	180	7,0	560	110	49	9

[2] Range of usable outside cable diameter

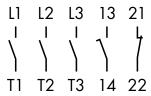
Plastic enclosure ▸ 3-pole + 1 NO/NC, IP66/IP67/IP69k

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	3 x 400 V	2 Auxilliary contacts (1 NO, 1 NC)		
40 A	20 kW	KA40.T203/WASI02.KL12V	**70032591**	
63 A	22 kW	KA63.T203/WASI02.KL12V	**70035461**	

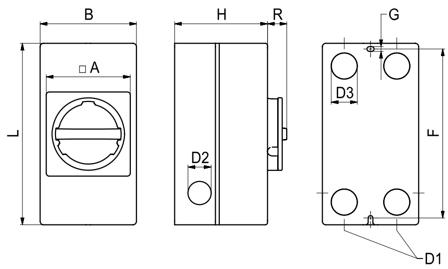
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	3 x 400 V	2 Auxilliary contacts (1 NO, 1 NC)		
40 A	20 kW	KA40.T103/WASI02.KL12V	**70035459**	
63 A	22 kW	KA63.T103/WASI02.KL12V	**70035460**	



Notice:

The safety switches according to DIN EN 62626-1 Class 0 are equipped with a cover interlock which allows the cover to be removed in position "I" only. The basic requirements of these devices are derived from switch disconnectors in accordance with IEC 60947-3. Furthermore, our safety switches according to DIN EN 62626-1 Class 0 have the following characteristics:

- IK06 impact resistance according to IEC 62262
- Ingress protection rating of IP66/67/69k according to IEC 60529
- AC-23A switching capacity according to IEC 60947-3
- Cover interlock, to prevent the opening of the enclosure in "OFF" position
- 3 times lockable in OFF position
- Moisture heat, salt mist and vibration test, category A according to IEC 60947-1 Annex Q



Maximum number of padlocks		
Face plate	**Shackle-∅**	**Number of padlocks**
74 x 74	7–8	3

	A	B	D1	D2	D3	F	G	H	L	R
KL12V	74	100	M25	M25	M25	178	5,6	93	190	17

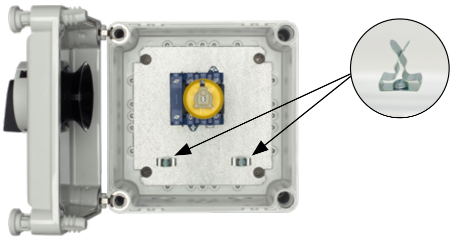
SAFETY SWITCH ACC. TO DIN EN 62626-1 CLASS 0

For EMC-compliant connection ▸ 3-pole + 1 NO/NC, IP66/67

EMC

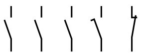
3-pole + 1NO/NC

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

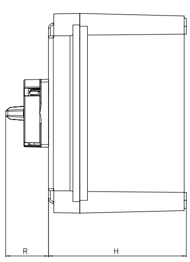


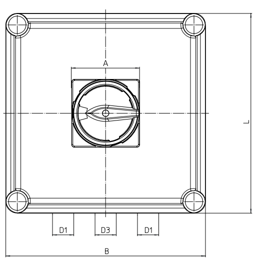
Similar image

KG



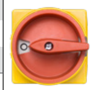
STM





Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	3-pole	3 x 400 V			
M25	25 A	7,5 kW	KG20B.T203/WASI01.STM	70011655	
M25	32 A	11 kW	KG32B.T203/WASI01.STM	70011656	
M25	40 A	15 kW	KG41B.T203/WASI01.STM	70011657	
M25	63 A	22 kW	KG64B.T203/WASI01.STM	70011658	
M40	80 A	30 kW	KG80.T203/WASI01.STM	70011530	
M40	100 A	37 kW	KG100.T203/WASI01.STM	70010900	
M63	125 A	45 kW	KG125.T203/WASI01.STM	70011532	
M63	160 A	55 kW	KG160. T203/WASI01.STM	70011533	
M63	250 A	90 kW	KG250.T203/WASI01.STM	70011534	
28-60 mm	315 A	110 kW	KG315.T203/WASI01.STM	70011535	

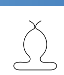
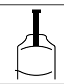
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	3-pole	3 x 400 V			
M25	25 A	7,5 kW	KG20B.T103/WASI01.STM	70010912	
M25	32 A	11 kW	KG32B.T103/WASI01.STM	70011659	
M25	40 A	15 kW	KG41B.T103/WASI01.STM	70011662	
M25	63 A	22 kW	KG64B.T103/WASI01.STM	70011664	
M40	80 A	30 kW	KG80.T103/WASI01.STM	70011536	
M40	100 A	37 kW	KG100.T103/WASI01.STM	70011537	
M63	125 A	45 kW	KG125.T103/WASI01.STM	70011538	
M63	160 A	55 kW	KG160.T103/WASI01.STM	70011539	
M63	250 A	90 kW	KG250.T103/WASI01.STM	70011540	
28-60 mm	315 A	110 kW	KG315.T103/WASI01.STM	70011541	

Notice:

The safety switches according to DIN EN 62626-1 Class 0 are equipped with a cover interlock which allows the cover to be removed in position "I" only. The basic requirements of these devices are derived from switch disconnectors in accordance with IEC 60947-3. Furthermore, our safety switches according to DIN EN 62626-1 Class 0 have the following characteristics:

- IK06 impact resistance according to IEC 62262
- Ingress protection rating of IP66/67 according to IEC60529
- AC-23A switching capacity according to IEC60947-3
- Cover interlock, to prevent the opening of the enclosure in "OFF" position
- 3 times lockable in OFF position
- Moisture heat, salt mist and vibration test, category A according to IEC60947-1 Annex Q

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL- enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

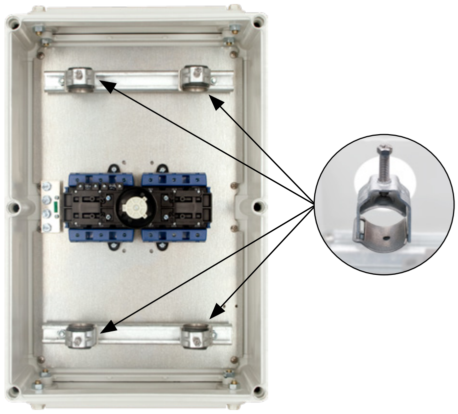
Cable-Ø shield		
	KG20 – KG64	12 – 16
	KG80/KG100	23 – 29
	KG125 – KG250	34 – 40
	KG315	46

Maximum number of padlocks			
Padlock device	Face plate	Shackle-Ø	Number of padlocks
	64 x 64	9	3
	88 x 88	10	3

	A	B	D1	D3	H	L	R
KG20B, KG32B	64	190	25,5	16,5	130	190	17
KG41B, KG64B	64	190	40,5	16,5	130	190	17
KG80	88	280	40,5	20,5	180	280	17
KG100	88	280	50,5	20,5	180	280	17
KG125, KG160	88	280	50,5	20,5	180	560	17
KG250, KG315	88	380	63,5	25,5	180	560	17

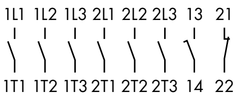
For EMC-compliant connection ▸ 6-pole + 1 NO/NC, IP66/67

Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

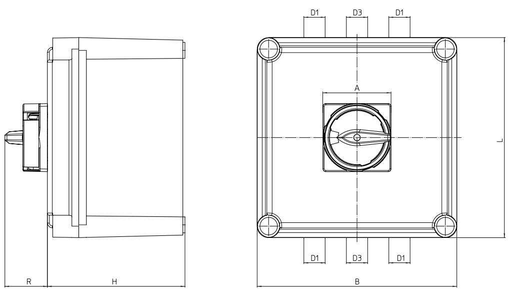


Similar image

KG



STM



Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	6-pole	3 x 400 V			
M25	25 A	7,5 kW	KG20B.T206/WASI01.STM	70011666	
M25	32 A	11 kW	KG32B.T206/WASI01.STM	70011667	
M25	40 A	15 kW	KG41B.T206/WASI01.STM	70011668	
M25	63 A	22 kW	KG64B.T206/WASI01.STM	70011671	
M40	80 A	30 kW	KG80.T206/WASI01.STM	70011542	
M40	100 A	37 kW	KG100.T206/WASI01.STM	70011543	
M63	125 A	45 kW	KG125.T206/WASI01.STM	70011544	
M63	160 A	55 kW	KG160.T206/WASI01.STM	70011545	

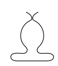
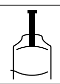
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	6-pole	3 x 400 V			
M25	25 A	7,5 kW	KG20B.T106/WASI01.STM	70011673	
M25	32 A	11 kW	KG32B.T106/WASI01.STM	70011675	
M25	40 A	15 kW	KG41B.T106/WASI01.STM	70011676	
M25	63 A	22 kW	KG64B.T106/WASI01.STM	70011677	
M40	80 A	30 kW	KG80.T106/WASI01.STM	70011546	
M40	100 A	37 kW	KG100.T106/WASI01.STM	70011547	
M63	125 A	45 kW	KG125.T106/WASI01.STM	70011548	
M63	160 A	55 kW	KG160.T106/WASI01.STM	70011549	

Notice:

The safety switches according to DIN EN 62626-1 Class 0 are equipped with a cover interlock which allows the cover to be removed in position "I" only. The basic requirements of these devices are derived from switch disconnectors in accordance with IEC 60947-3. Furthermore, our safety switches according to DIN EN 62626-1 Class 0 have the following characteristics:

- IK06 impact resistance according to IEC 62262
- Ingress protection rating of IP66/67 according to IEC60529
- AC-23A switching capacity according to IEC60947-3
- Cover interlock, to prevent the opening of the enclosure in "OFF" position
- 3 times lockable in OFF position
- Moisture heat, salt mist and vibration test, category A according to IEC60947-1 Annex Q

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL- enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

Cable-Ø shield		
	KG20 – KG64	12 – 16
	KG80/KG100	23 – 29
	KG125 – KG160	34

Maximum number of padlocks			
Padlock device	Face plate	Shackle-Ø	Number of padlocks
	64 x 64	9	3
	88 x 88	10	3

	A	B	D1	D3	H	L	R
KG20B, KG32B	64	190	25,5	16,5	130	280	17
KG41B, KG64B	64	190	40,5	16,5	130	280	17
KG80	88	280	40,5	20,5	130	560	17
KG100	88	280	50,5	20,5	130	560	17
KG125, KG160	88	280	50	20	180	560	17

EMC

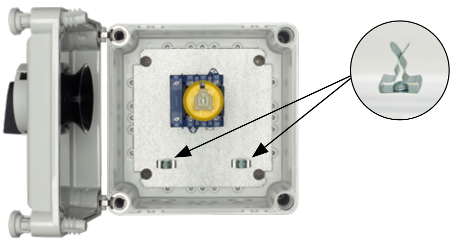
6-pole

Safety switch EMC-compliant KG series

SAFETY SWITCH ACC. TO DIN EN 62626-1 CLASS 0

For EMC-compliant connection ▸ 3-pole + 1 NO/NC, IP66/67

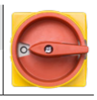
Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space

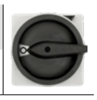


Similar image

Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	3-pole	3 x 400 V			
M25	40 A	20 kW	KA40B.T203/WASI01.STM	**70032595**	
M25	63 A	22 kW	KA63B.T203/WASI01.STM	**70035569**	

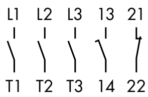
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	3-pole	3 x 400 V			
M25	40 A	20 kW	KA40B.T103/WASI01.STM	**70035567**	
M25	63 A	22 kW	KA63B.T103/WASI01.STM	**70035568**	

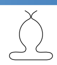
Notice:

The safety switches according to DIN EN 62626-1 Class 0 are equipped with a cover interlock which allows the cover to be removed in position "I" only. The basic requirements of these devices are derived from switch disconnectors in accordance with IEC 60947-3. Furthermore, our safety switches according to DIN EN 62626-1 Class 0 have the following characteristics:

- IK06 impact resistance according to IEC 62262
- Ingress protection rating of IP66/67 according to IEC60529
- AC-23A switching capacity according to IEC60947-3
- Cover interlock, to prevent the opening of the enclosure in "OFF" position
- 3 times lockable in OFF position
- Moisture heat, salt mist and vibration test, category A according to IEC60947-1 Annex Q

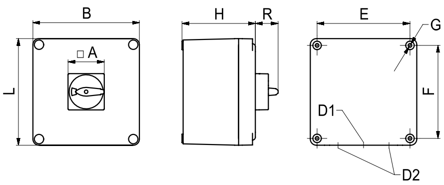
Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL- enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.



Cable-Ø shield		
	STM	23 – 29

Maximum number of padlocks		
Face plate	Shackle-Ø	Number of padlocks
64 x 64	7 – 8	3

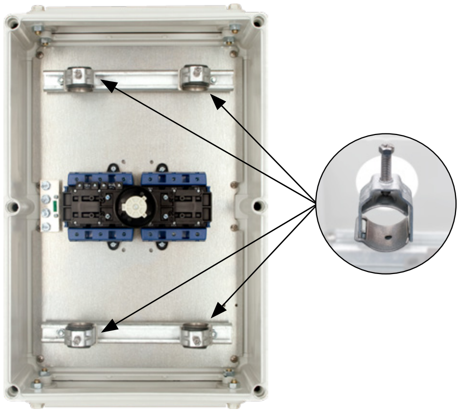
STM



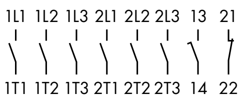
	A	B	D1	D2	E	F	G	H	L	R
STM	64	190	M16	M40	164	164	6,5	130	190	40,2

For EMC-compliant connection ▸ 6-pole + 1 NO/NC, IP66/67

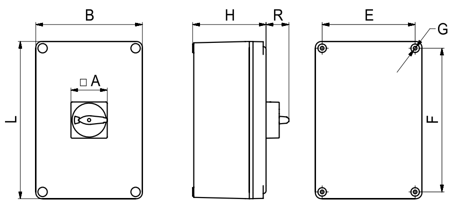
Plastic enclosures with high mechanical stability, high UV resistance and wide terminal compartment space



Similar image



STM



Notice: The outside-Ø is bigger for shielded cables

with Auxiliary contacts (1 NO + 1 NC)

Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	6-pole	3 x 400 V			
M25	40 A	20 kW	KA40B.T206/WASI01.STM	**70039562**	
M25	63 A	22 kW	KA63B.T206/WASI01.STM	**70039566**	

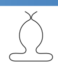
Gland	Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
	6-pole	3 x 400 V			
M25	40 A	20 kW	KA40B.T106/WASI01.STM	**70039560**	
M25	63 A	22 kW	KA63B.T106/WASI01.STM	**70039564**	

Notice:

The safety switches according to DIN EN 62626-1 Class 0 are equipped with a cover interlock which allows the cover to be removed in position "I" only. The basic requirements of these devices are derived from switch disconnectors in accordance with IEC 60947-3. Furthermore, our safety switches according to DIN EN 62626-1 Class 0 have the following characteristics:

- IK06 impact resistance according to IEC 62262
- Ingress protection rating of IP66/67 according to IEC60529
- AC-23A switching capacity according to IEC60947-3
- Cover interlock, to prevent the opening of the enclosure in "OFF" position
- 3 times lockable in OFF position
- Moisture heat, salt mist and vibration test, category A according to IEC60947-1 Annex Q

Maintenance switches designed for EMC compliant connecting of variable speed drives are equipped with shield brackets (KS- and KL- enclosures) or clamps mounted on rail (STM enclosure). Enabling a large scale uninterruptable transmission of the shield.

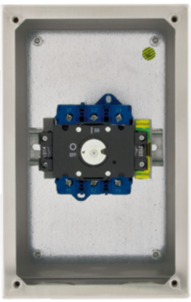
Cable-Ø shield		
	STM	23 – 29

Maximum number of padlocks		
Face plate	Shackle-Ø	Number of padlocks
64 x 64	7–8	3

	A	B	E	F	G	H	L	R
STM	64	188	164	254	6,5	129,5	278	40,5

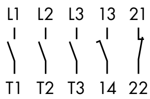
Stainless steel enclosures ▸ 3-pole + 1 NO/NC, IP66

Stainless steel enclosures for rough environments



Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	**3 x 400 V**			
20 A	5,5 kW	KG10.T203/NLB512.IKN	**70027145**	
25 A	7,5 kW	KG20.T203/NLB512.IKN	**70020262**	
32 A	11 kW	KG32.T203/NLB512.IKN	**70020270**	
40 A	15 kW	KG41.T203/NLB512.IKN	**70020274**	
63 A	22 kW	KG64.T203/NLB512.IKN	**70020276**	
80 A	30 kW	KG80.T203/NLB512.IKN	**70020260**	
100 A	37 kW	KG100.T203/NLB512.IKN	**70020266**	
125 A	45 kW	KG125.T203/NLB512.IKN	**70110686**	
160 A	55 kW	KG160.T203/NLB512.IKN	**70110688**	
200 A	75 kW	KG210.T203/NLB512.IKN	**70110690**	
250 A	90 kW	KG250.T203/NLB512.IKN	**70110696**	
315 A	110 kW	KG315.T203/NLB512.IKN	**70110699**	



Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-pole	**3 x 400 V**			
20 A	5,5 kW	KG10.T103/NLB522.IKN	**70034876**	
25 A	7,5 kW	KG20.T103/NLB522.IKN	**70020272**	
32 A	11 kW	KG32.T103/NLB522.IKN	**70020257**	
40 A	15 kW	KG41.T103/NLB522.IKN	**70020258**	
63 A	22 kW	KG64.T103/NLB522.IKN	**70020273**	
80 A	30 kW	KG80.T103/NLB522.IKN	**70020271**	
100 A	37 kW	KG100.T103/NLB522.IKN	**70019434**	
125 A	45 kW	KG125.T103/NLB522.IKN	**70056441**	
160 A	55 kW	KG160.T103/NLB522.IKN	**70110683**	
200 A	75 kW	KG210.T103/NLB522.IKN	**70110684**	
250 A	90 kW	KG250.T103/NLB522.IKN	**70110685**	
315 A	110 kW	KG315.T103/NLB522.IKN	**70110573**	

Larger enclosures on request.

Suitable brackets for wall mounting

Screws included in the scope of delivery, mounting screws must be provided by the customer.

Standard KG10 – KG64, Set of 2 pcs.
5000005 | Q4SV.002/2.IKN

Standard KG80 – KG100, Set of 4 pcs.
5514561 | Q4SV.002/4.IKN

Standard KG125 – KG315, Set of 4 pcs.
5514370 | Q4SV.001/4.IKN

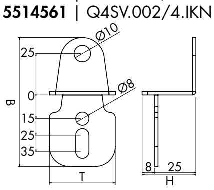
Flat KG10 – KG64, Set of 2 pcs.
5000004 | Q4SV.009/2.IKN

Flat KG80 – KG100, Set of 4 pcs.
5514560 | Q4SV.009/4.IKN

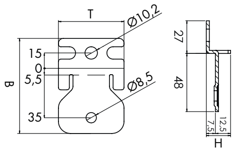
Hygienic KG10 – KG100*, Set of 2 pcs.
5514562 | Q4SV.195/2.IKN

Hygienic KG125 – KG315, Set of 4 pcs.
5514557 | Q4SV.199/4.IKN

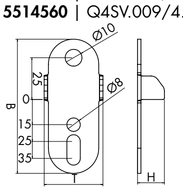
5000005 | Q4SV.002/2.IKN
5514561 | Q4SV.002/4.IKN



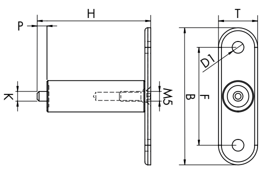
5514370 | Q4SV.001/4.IKN



5000004 | Q4SV.009/2.IKN
5514560 | Q4SV.009/4.IKN

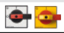


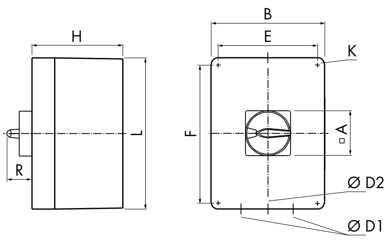
5514562 | Q4SV.195/2.IKN
5514557 | Q4SV.199/4.IKN



Design		Name	Art. no.	Dimensions B	H	T	F	P	D1	K
Standard	KG10 – KG64	Q4SV.002/2.IKN	**5000005**	78	32	40	–	–	–	–
	KG80 – KG100	Q4SV.002/4.IKN	**5514561**	78	32	40	–	–	–	–
	KG125 – KG315	Q4SV.001/4.IKN	**5514370**	78,5	20	54	–	–	–	–
Flat	KG10 – KG64	Q4SV.009/2.IKN	**5000004**	80	16	35	–	–	–	–
	KG80 – KG100	Q4SV.009/4.IKN	**5514560**	80	16	35	–	–	–	–
Hygienic	KG10 – KG100*	Q4SV.195/2.IKN	**5514562**	70	58	20	50	5	6	M5
	KG125 – KG315	Q4SV.199/4.IKN	**5514557**	105	66	45	60	16	10	M10

* 2 kits are required for KG80 – KG100.

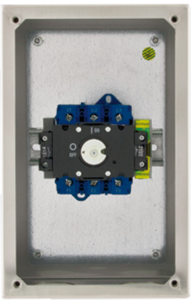
Maximum number of padlocks		
Padlock device	**Shackle-Ø**	**Number of padlocks**
	9	3
	9	4



	A	B	D1	D2	E	F	H	K	L	R
KG10, KG20, KG32	64	100	2 x 25	1 x 20	0	130	110	M5	160	40,1
KG41, KG64	64	100	2 x 25	1 x 20	0	170	110	M5	200	40,1
KG80, KG100	64	160	2 x 40	1 x 20	110	200	120	M5	250	40,1
KG125, KG160	88	400	2 x 63	1 x 20	330	330	200	M6	400	49,3
KG210, KG250, KG315	88	400	2 x 63	1 x 20	330	330	200	M6	400	73,0

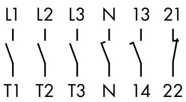
Stainless steel enclosures ▸ 4-pole + 1 NO/NC, IP66

Stainless steel enclosures for rough environments



Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-polig	3 x 400 V			
25 A	7,5 kW	KG20.T204/NLB512.IKN	**70020267**	
32 A	11 kW	KG32.T204/NLB512.IKN	**70020277**	
40 A	15 kW	KG41.T204/NLB512.IKN	**70020265**	
63 A	22 kW	KG64.T204/NLB512.IKN	**70020268**	
80 A	30 kW	KG80.T204/NLB512.IKN	**70020269**	
100 A	37 kW	KG100.T204/NLB512.IKN	**70020261**	
125 A	45 kW	KG125.T204/NLB512.IKN	**70110708**	
160 A	55 kW	KG160.T204/NLB512.IKN	**70110711**	
200 A	75 kW	KG210.T204/NLB512.IKN	**70110714**	
250 A	90 kW	KG250.T204/NLB512.IKN	**70110718**	
315 A	110 kW	KG315.T204/NLB512.IKN	**70110719**	



Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Type of handle
3-polig	3 x 400 V			
25 A	7,5 kW	KG20.T104/NLB522.IKN	**70020256**	
32 A	11 kW	KG32.T104/NLB522.IKN	**70020275**	
40 A	15 kW	KG41.T104/NLB522.IKN	**70020263**	
63 A	22 kW	KG64.T104/NLB522.IKN	**70020259**	
80 A	30 kW	KG80.T104/NLB522.IKN	**70020264**	
100 A	37 kW	KG100.T104/NLB522.IKN	**70020254**	
125 A	45 kW	KG125.T104/NLB522.IKN	**70110700**	
160 A	55 kW	KG160.T104/NLB522.IKN	**70110702**	
200 A	75 kW	KG210.T104/NLB522.IKN	**70110703**	
250 A	90 kW	KG250.T104/NLB522.IKN	**70110705**	
315 A	110 kW	KG315.T104/NLB522.IKN	**70110707**	

Larger enclosures on request.

Suitable brackets for wall mounting

Screws included in the scope of delivery, mounting screws must be provided by the customer.

Standard KG10 – KG64, Set of 2 pcs.
5000005 | Q4SV.002/2.IKN

Standard KG80 – KG100, Set of 4 pcs.
5514561 | Q4SV.002/4.IKN

Standard KG125 – KG315, Set of 4 pcs.
5514370 | Q4SV.001/4.IKN

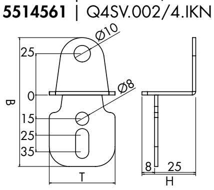
Flat KG10 – KG64, Set of 2 pcs.
5000004 | Q4SV.009/2.IKN

Flat KG80 – KG100, Set of 4 pcs.
5514560 | Q4SV.009/4.IKN

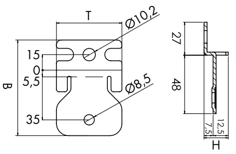
Hygienic KG10 – KG100*, Set of 2 pcs.
5514562 | Q4SV.195/2.IKN

Hygienic KG125 – KG315, Set of 4 pcs.
5514557 | Q4SV.199/4.IKN

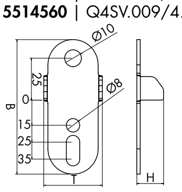
5000005 | Q4SV.002/2.IKN
5514561 | Q4SV.002/4.IKN



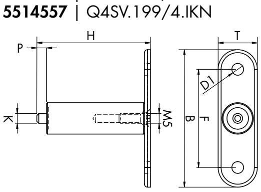
5514370 | Q4SV.001/4.IKN



5000004 | Q4SV.009/2.IKN
5514560 | Q4SV.009/4.IKN



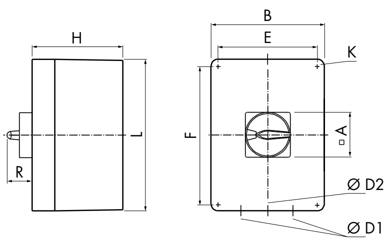
5514562 | Q4SV.195/2.IKN
5514557 | Q4SV.199/4.IKN



Design		Name	Art. no.	Dimensions						
				B	H	T	F	P	D1	K
Standard	KG10 – KG64	Q4SV.002/2.IKN	**5000005**	78	32	40	–	–	–	–
	KG80 – KG100	Q4SV.002/4.IKN	**5514561**	78	32	40	–	–	–	–
	KG125 – KG315	Q4SV.001/4.IKN	**5514370**	78,5	20	54	–	–	–	–
Flat	KG10 – KG64	Q4SV.009/2.IKN	**5000004**	80	16	35	–	–	–	–
	KG80 – KG100	Q4SV.009/4.IKN	**5514560**	80	16	35	–	–	–	–
Hygienic	KG10 – KG100*	Q4SV.195/2.IKN	**5514562**	70	58	20	50	5	6	M5
	KG125 – KG315	Q4SV.199/4.IKN	**5514557**	105	66	45	60	16	10	M10

* 2 kits are required for KG80 – KG100.

Maximum number of padlocks		
Padlock device	Shackle-∅	Number of padlocks
	9	3
	9	4



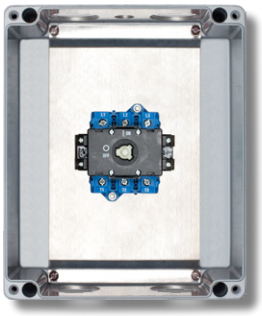
	A	B	D1	D2	E	F	H	K	L	R
KG10, KG20, KG32	64	100	2 x 25	1 x 20	0	130	110	M5	160	40,1
KG41, KG64	64	100	2 x 25	1 x 20	0	170	110	M5	200	40,1
KG80, KG100	64	160	2 x 40	1 x 20	110	200	120	M5	250	40,1
KG125, KG160	88	400	2 x 63	1 x 20	330	330	200	M6	400	49,3
KG210, KG250, KG315	88	400	2 x 63	1 x 20	330	330	200	M6	400	73,0

MAIN, SAFETY AND MAINTENANCE SWITCH

Aluminium enclosures ▸ 3-pole + 1 NO/NC, IP65

Aluminium enclosures for rough environments
Entries with thread

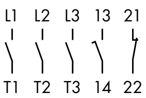
Material:	DIN EN 1706 EN AC-AlSi 12 (Fe)
Impact resistance:	> 7 Joule according EN 50014
Varnishing:	Powder coating
Color Tone:	RAL 7001, silver gray



Similar image

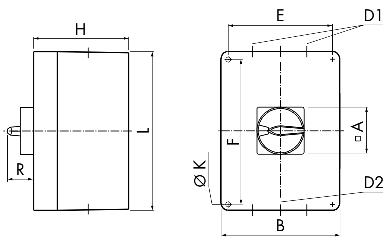
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
3-pole	**3 x 400 V**		
25 A	7,5 kW	KG20B.T203/D-A135.GKM	**70014371**
32 A	11 kW	KG32B.T203/D-A095.GKM	**70024562**
40 A	15 kW	KG41B.T203/D-A127.GKM	**70024579**
63 A	22 kW	KG64B.T203/D-A145.GKM	**70024582**
80 A	30 kW	KG80.T203/D-A096.GKM	**70022446**
100 A	37 kW	KG100.T203/D-A102.GKM	**70022450**
125 A	45 kW	KG125.T203/D-A056.GKM	**70024509**
160 A	55 kW	KG160.T203/D-A048.GKM	**70024512**
250 A	90 kW	KG250.T203/D-A048.GKM	**70025728**
315 A	110 kW	KG315.T203/D-A038.GKM	**70037376**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
3-pole	**3 x 400 V**		
25 A	7,5 kW	KG20B.T103/D-A102.GKM	**70011083**
32 A	11 kW	KG32B.T103/D-A048.GKM	**70011084**
40 A	15 kW	KG41B.T103/D-A076.GKM	**70024576**
63 A	22 kW	KG64B.T103/D-A079.GKM	**70011365**
80 A	30 kW	KG80.T103/D-A049.GKM	**70024586**
100 A	37 kW	KG100.T103/D-A053.GKM	**70022395**
125 A	45 kW	KG125.T103/D-A043.GKM	**70024507**
160 A	55 kW	KG160.T103/D-A035.GKM	**70024511**
250 A	90 kW	KG250.T103/D-A058.GKM	**70024946**
315 A	110 kW	KG315.T103/D-A040.GKM	**70029774**



Maximum number of padlocks

Padlock device	Face plate	Shackle-∅	Number of padlocks
	64 x 64	9	3
	88 x 88	10	3

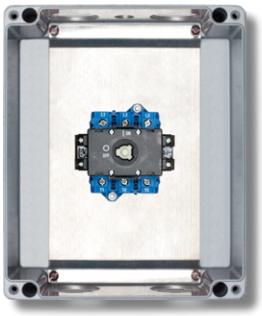


	A	B	D1	D2	E	F	H	K	L	R
KG20B, KG32B	64	122	2 x M25	2 x M25	82	106	90	7,0	120	40,1
KG41B, KG64B	64	180	1 x M40 1 x M20	1 x M40	130	160	100	7,0	180	40,1
KG80, KG100	64	230	2 x M50 1 x M20	2 x M50	180	260	110	7,0	280	40,1
KG125, KG160	88	230	2 x M50	2 x M50 1 x M20	180	310	180	7,0	330	49,3
KG250, KG315	88	310	2 x M63	2 x M63 1 x M20	262	382,5	180	7,0	400	49,3

Aluminium enclosures ▸ 4-pole + 1 NO/NC, IP65

Aluminium enclosures for rough environments
Entries with thread

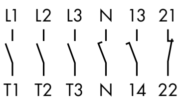
Material:	DIN EN 1706 EN AC-AlSi 12 (Fe)
Impact resistance:	> 7 Joule according EN 50014
Varnishing:	Powder coating
Color Tone:	RAL 7001, silver gray



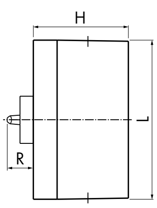
Similar image

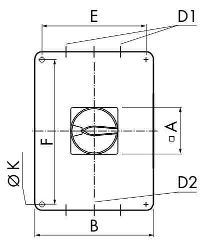
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
4-pole	**3 x 400 V**		
25 A	7,5 kW	On request	
32 A	11 kW	KG32B.T204/D-A016.GKM	**70024571**
40 A	15 kW	KG41B.T204/D-A028.GKM	**70023997**
63 A	22 kW	KG64B.T204/D-A069.GKM	**70024584**
80 A	30 kW	KG80.T204/D-A026.GKM	**70024587**
100 A	37 kW	KG100.T204/D-A051.GKM	**70024505**
125 A	45 kW	KG125.T204/D-A020.GKM	**70024510**
160 A	55 kW	On request	
250 A	90 kW	On request	
315 A	110 kW	On request	

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
4-pole	**3 x 400 V**		
25 A	7,5 kW	KG20B.T104/D-A049.GKM	**70024030**
32 A	11 kW	KG32B.T104/D-A015.GKM	**70024515**
40 A	15 kW	KG41B.T104/D-A022.GKM	**70024032**
63 A	22 kW	KG64B.T104/D-A032.GKM	**70024580**
80 A	30 kW	KG80.T104/D-A031.GKM	**70023158**
100 A	37 kW	KG100.T104/D-A042.GKM	**70024503**
125 A	45 kW	KG125.T104/D-A022.GKM	**70023805**
160 A	55 kW	On request	
250 A	90 kW	On request	
315 A	110 kW	On request	



Maximum number of padlocks			
Padlock device	**Face plate**	**Shackle-Ø**	**Number of padlocks**
	64 x 64	9	3
	88 x 88	10	3



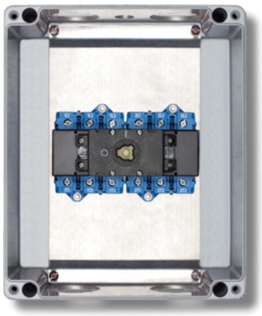


	A	B	D1	D2	E	F	H	K	L	R
KG20B, KG32B	64	122	2 x M25	2 x M25	82	106	90	7,0	120	40,1
KG41B, KG64B	64	180	1 x M50 1 x M20	1 x M50	130	160	100	7,0	180	40,1
KG80, KG100	64	230	2 x M50 1 x M20	2 x M50	180	260	110	7,0	280	40,1
KG125, KG160	88	230	2 x M50	2 x M50 1 x M20	180	310	180	7,0	330	49,3
KG250, KG315	88	310	2 x M63	2 x M63 1 x M20	262	382,5	180	7,0	400	49,3

Aluminium enclosures ▸ 6-pole + NO/NC, IP65

Aluminium enclosures for raugh environments
Entries with thread

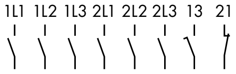
Material:	DIN EN 1706 EN AC-AlSi 12 (Fe)
Impact resistance:	> 7 Joule according EN 50014
Varnishing:	Powder coating
Color Tone:	RAL 7001, silver gray



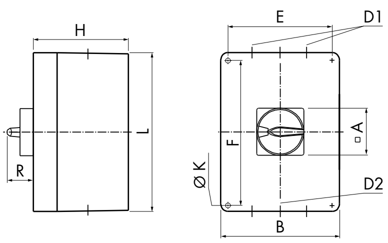
Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
6-pole	**3 x 400 V**		
25 A	7,5 kW	KG20B.T206/D-A043.GKM	**70024513**
32 A	11 kW	KG32B.T206/D-A045.GKM	**70024575**
40 A	15 kW	KG41B.T206/D-A039.GKM	**70019518**
63 A	22 kW	KG64B.T206/D-A050.GKM	**70024585**
80 A	30 kW	KG80.T206/D-A045.GKM	**70024588**
100 A	37 kW	KG100.T206/D-A034.GKM	**70024506**
125 A	45 kW	KG125.T206/D-A017.GKM	**70036862**
160 A	55 kW	KG160.T206/D-A034.GKM	**70048717**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
6-pole	**3 x 400 V**		
25 A	7,5 kW	KG20B.T106/D-A038.GKM	**70023648**
32 A	11 kW	KG32B.T106/D-A029.GKM	**70024561**
40 A	15 kW	KG41B.T106/D-A029.GKM	**70024577**
63 A	22 kW	KG64B.T106/D-A033.GKM	**70023697**
80 A	30 kW	KG80.T106/D-A033.GKM	**70024015**
100 A	37 kW	KG100.T106/D-A026.GKM	**70023600**
125 A	45 kW	KG125.T106/D-A017.GKM	**70029779**
160 A	55 kW	KG160.T106/D-A018.GKM	**70029780**



Maximum number of padlocks			
Padlock device	**Face plate**	**Shackle-Ø**	**Number of padlocks**
	64 x 64	9	3
	88 x 88	10	3



	A	B	D1	D2	E	F	H	K	L	R
KG20B, KG32B	64	180	2 x M25	2 x M25	106	82	100	70	180	40,1
KG41B	64	230	2 x M40 1 x M20	2 x M40	180	260	110	7,0	280	40,1
KG64B	64	230	2 x M50 1 x M20	2 x M50	180	260	110	7,0	280	40,1
KG80, KG100	64	230	2 x M50 1 x M20	2 x M50	180	260	110	7,0	280	40,1
KG125, KG160	88	400	2 x M63 2 x M20	2 x M63	382,5	262	180	7,0	310	49,3

ATEX ▸ Zone 22 and 21, 3-pole + 1NO/NC, IP66

Maintenance and safety switch acc. to EC ATEX-Directive 2014/34/EU, equipment group II, Category 2 – Zone 21, Category 3 – Zone 22, explosive atmosphere "Dust", mechanical impact resistance 7J

2 x M25 ATEX cable glands, 2 x M32/M25 adaptors and 1 dummy plug M20 included

Similar image

EMC-Model

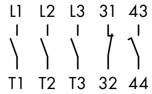
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
3-pole	**3 x 400 V**		
25 A	7,5 kW	KG20.T203/NL-EXRA.KNBOX	**70022472**
32 A	11 kW	KG32.T203/NL-EXRA.KNBOX	**70023921**
40 A	15 kW	KG41.T203/NL-EXRA.KNBOX	**70023928**
55 A	20 kW	KG64.T203/NL-EXRA.KNBOX	**70023934**
EMC-Model			
25 A	7,5 kW	KG20.T203/NL-EXRC.*KNBOX	**70022638**
32 A	11 kW	KG32.T203/NL-EXRC.*KNBOX	**70023922**
40 A	15 kW	KG41.T203/NL-EXRC.*KNBOX	**70023929**
55 A	20 kW	KG64.T203/NL-EXRC.*KNBOX	**70022290**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
3-pole	**3 x 400 V**		
25 A	7,5 kW	KG20.T103/NL-EXBA.KNBOX	**70027276**
32 A	11 kW	KG32.T103/NL-EXBA.KNBOX	**70022644**
40 A	15 kW	KG41.T103/NL-EXBA.KNBOX	**70023925**
55 A	20 kW	KG64.T103/NL-EXBA.KNBOX	**70023931**
EMC-Model			
25 A	7,5 kW	KG20.T103/NL-EXBC.*KNBOX	**70022632**
32 A	11 kW	KG32.T103/NL-EXBC.*KNBOX	**70022932**
40 A	15 kW	KG41.T103/NL-EXBC.*KNBOX	**70023926**
55 A	20 kW	KG64.T103/NL-EXBC.*KNBOX	**70023932**

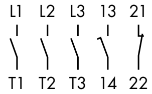
Notice for EMC-Model

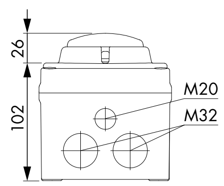
Maintenance switches for EMC-compliant connection of FU-regulated drives use shield clips. These clips are used to continue the cable shield circuit through the enclosure.
The configuration of the maintenance switch between FU and motor allows the use as disconnector up to 400 Hz and as load switch at frequencies from 40 Hz to 100 Hz.
Each maintenance switch has as standard 2 auxiliary contacts, 1 NC and 1 NO. Via the NO (20 ms leading) the FU can be switched OFF before the main contacts of the switch open.
For the rating of the switch please note that the motor may have approx. 10 % higher charging rate due to the higher loss in FU-operation e.g. a motor with 7,5 kW rating the motor current has to be determined with 16,7 A instead of 15,2 A.

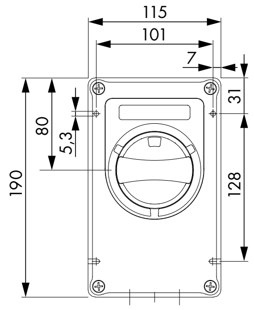
3-pole + 1NO/1NC



3-pole + 1NO/1NC EMC







Cabel-Ø shield		
	KG20-KG64	12 – 16

Maximal number of locks		
Padlock device	U-bolt-Ø	Number of locks
	6	3

ATEX ▸ Zone 22 und 21, 3-pole + 1NO/NC, IP66

Maintenance and safety switch acc. to EC ATEX-Directive 2014/34/EU, equipment group II, Category 2 – Zone 21, Category 3 – Zone 22, explosive atmosphere "Dust", mechanical impact resistance 7J

2 x M25 ATEX cable glands, 2 x M32/M25 adaptors and 1 dummy plug M20 included

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
3-pole	**3 x 400 V**		
25 A	7,5 kW	KG20.T203/NI-EXRC*KNSAF	**70035292**
32 A	11 kW	KG32.T203/NI-EXRC*KNSAF	**70035313**
40 A	15 kW	KG41.T203/NI-EXRC*KNSAF	**70035375**
55 A	20 kW	KG64.T203/NI-EXRC*KNSAF	**70035394**

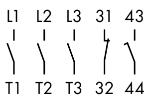
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
3-pole	**3 x 400 V**		
25 A	7,5 kW	KG20.T103/NI-EXBC*KNSAF	**70035282**
32 A	11 kW	KG32.T103/NI-EXBC*KNSAF	**70035309**
40 A	15 kW	KG41.T103/NI-EXBC*KNSAF	**70035357**
55 A	20 kW	KG64.T103/NI-EXBC*KNSAF	**70035378**

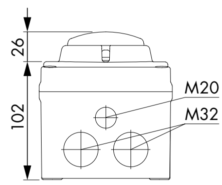
Notice:

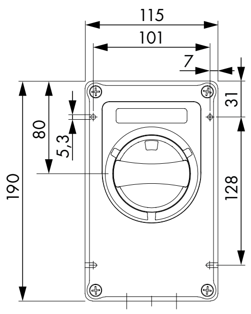
The safety switches according to DIN EN 62626-1 Class 1 are equipped with a cover interlock which allows the cover to be removed in position "I" only. The basic requirements of these devices are derived from switch disconnectors in accordance with IEC 60947-3. Furthermore, our safety switches according to DIN EN 62626-1 Class 1 have the following characteristics:

- High IK09 impact resistance according to IEC 62262
- Ingress protection rating of IP66 according to IEC60529
- AC-3 switching capacity according to IEC60947-4-1
- AC-23A switching capacity according to IEC60947-3
- Cover interlock, to prevent the opening of the enclosure in "OFF" position
- 3 times lockable in OFF position
- Moisture heat, salt mist and vibration test, category C and D according to IEC60947-1 Annex Q

3-pole + 1NO/1NC







Cable-Ø shield		
	KG20-KG64	12 – 16

Maximal number of locks		
Padlock device	U-bolt-Ø	Number of locks
	6	3

MAIN, SAFETY AND MAINTENANCE SWITCH

ATEX ▸ Zone 22 and 21, 4-pole + 1NO/NC, IP66

Maintenance and safety switch acc. to EC ATEX-Directive 2014/34/EU, equipment group II, Category 2 – Zone 21, Category 3 – Zone 22, explosive atmosphere "Dust", mechanical impact resistance 7J

2 x M25 ATEX cable glands, 2 x M32/M25 adaptors and 1 dummy plug M20 included

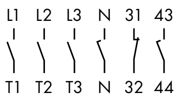
Similar image

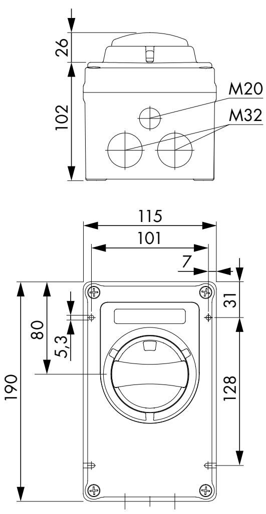
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
4-pole	3 x 400 V		
25 A	7,5 kW	KG20.T204/NL-EXRA.KNBOX	**70022639**
32 A	11 kW	KG32.T204/NL-EXRA.KNBOX	**70023923**
40 A	15 kW	KG41.T204/NL-EXRA.KNBOX	**70023930**
55 A	20 kW	KG64.T204/NL-EXR.KNBOX [1]	**70023935**

[1] Without auxiliary contacts

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
4-pole	3 x 400 V		
25 A	7,5 kW	KG20.T104/NL-EXBA.KNBOX	**70022633**
32 A	11 kW	KG32.T104/NL-EXBA.KNBOX	**70022933**
40 A	15 kW	KG41.T104/NL-EXBA.KNBOX	**70023927**
55 A	20 kW	KG64.T104/NL-EXBA.KNBOX [1]	**70023933**

[1] Without auxiliary contacts





Cable-∅ shield		
	KG20-KG64	12 – 16

Maximal number of locks		
Padlock device	U-bolt-Ø	Number of locks
	6	3

ATEX ▸ Zone 22 and 21, 6-pole + 1NO/NC, IP66

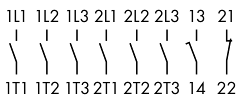
Maintenance and safety switch acc. to EC ATEX-Directive 2014/34/EU, equipment group II, Category 2 – Zone 21, Category 3 – Zone 22, explosive atmosphere "Dust", mechanical impact resistance 7J

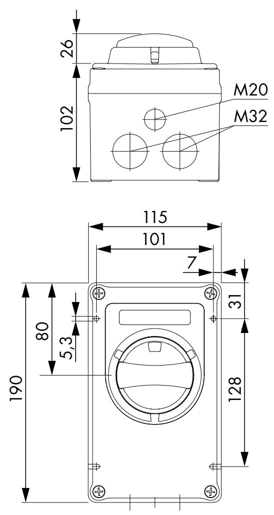
2 x M32 ATEX cable glants and 1 dummy plug M20 included

Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
6-pole	3 x 400 V		
25 A	7,5 kW	KG20.T206/NI-EXRA.KNBOX	**70022640**
32 A	11 kW	KG32.T206/NI-EXRA.KNBOX	**70023924**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
6-pole	3 x 400 V		
25 A	7,5 kW	KG20.T106/NI-EXBA.KNBOX	**70022634**
32 A	11 kW	KG32.T106/NI-EXBA.KNBOX	**70023920**





Maximal number of locks		
Padlock device	U-bolt-Ø	Number of locks
	6	3

KN-CONTROLS WIZARD-SERIES

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- Rugged Control Panel for industrial use. Temperature range -20°C to + 60°C.
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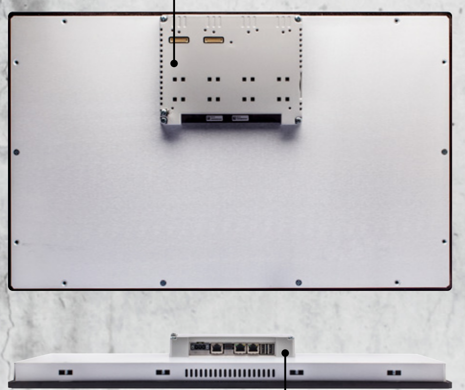

Up to 3 physically separated networks

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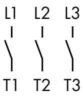
Switch disconnector according EN 60947-3, 3-pole, O – I

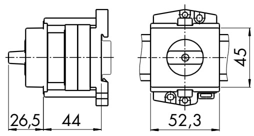
Base mounting 45 mm standard knock-out



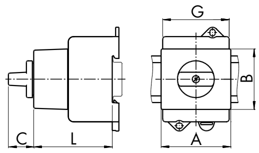
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.	Name	Art. no.	Name	Art. no.
3-pole	3 x 400 V	without padlock device		with integr. padlock device		with integr. padlock device	
20 A	5,7 kW	KG10A.T303.VE21	**70020514**	KG10A.T303/58.VE21	**70008773**	KG10A.T203/58.VE21	**70023738**
25 A	7,5 kW	KG20A.T303.VE2	**70023540**	KG20A.T303/58.VE2	**70011280**	KG20A.T203/58.VE2	**70018818**
32 A	11 kW	KG32A.T303.VE2	**70022451**	KG32A.T303/58.VE2	**70011389**	KG32A.T203/58.VE2	**70021108**
40 A	15 kW	KG41.T303.VE2	**70030404**	KG41.T303/58.VE2	**70010102**	KG41.T203/58.VE2	**70010823**
		KG41.T303.VE2C [1]	**70048897**	KG41.T103/D-K001.VE2C [1]	**70042113**	KG41.T203/D-K001.VE2C [1]	**70048889**
63 A	22 kW	KG64.T303.VE2	**70011691**	KG64.T303/58.VE2	**70012797**	KG64.T203/58.VE2	**70025752**
		KG64.T303.VE2C [1]	**70049031**	KG64.T103/D-K001.VE2C [1]	**70047792**	KG64.T203/D-K001.VE2C [1]	**70033576**
80 A	30 kW	KG80.T303.VE2	**70010104**	KG80.T303/58.VE2	**70010250**	KG80.T203/58.VE2	**70028955**
100 A	37 kW	KG100.T303.VE2	**70009959**	KG100.T303/58.VE2	**70012785**	KG100.T203/58.VE2	**70037113**
125 A	45 kW	KG125.T303.VE2	**70017708**	KG125.T303/58.VE2	**70022206**	KG125.T203/58.VE2	**70021126**
160 A	55 kW	KG160.T303.VE2	**70017776**	KG160.T303/58.VE2	**70020523**	KG160.T203/58.VE2	**70042247**

[1] Not for base mounting 45 mm standard knock-out, but wire connection without demounting of handle and escutcheon plate.

KG10A

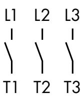


KG20A–KG160

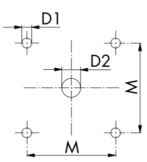


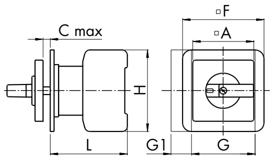
	A	B	C without padlock device	C with padlock device	G	L
KG20A, KG32A	43,7	45	22	28	42	56,5
KG41 ...VE2, KG64 ...VE2	52	45	22	28	50	56,5
KG41 ...VE2C, KG64 ...VE2C	52	39	22	28	50	56,5
KG80, KG100	70	45	26	30	70	65
KG125, KG160	112	45	33,8	41,6	112	98

Four hole panel mounting, IP66



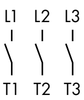
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
20 A	5,5 kW	48 x 48	KG10A.T303.E	**70022127**
		64 x 64	KG10B.T303.E	**70023171**
25 A	7,5 kW	48 x 48	KG20A.T303.E	**70029522**
		64 x 64	KG20B.T303.E	**70010249**
32 A	11 kW	48 x 48	KG32A.T303.E	**70011114**
		64 x 64	KG32B.T303.E	**70010409**





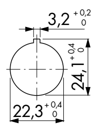
	Switch A	C	F	G	H	L	Hole pattern M	D1	D2
KG10A	48	4	48	48	50	48,2	36	5	11-15
KG10B	64	4	64	48	50	52,2	48	5	11-15
KG20A / KG32A	48	4	48	42	54	53,8	36	5	10
KG20B / KG32B	64	4	64	42	54	53,8	48	5	10

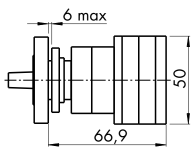
Single hole mounting 22 mm, IP66

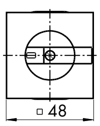


Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
20 A	5,5 kW	48 x 48	KG10A.T303.FT2	**70017452**
		64 x 64	KG10A.T303.FH3	**70049565**
25 A	7,5 kW	48 x 48	KG20A.T303.FT2	**70017907**
		64 x 64	KG20A.T303.FH3	**70048739**
32 A	11 kW	48 x 48	KG32A.T303.FT2	**70018136**
		64 x 64	KG32A.T303.FH3	**70048835**

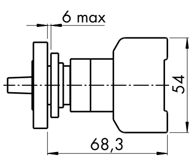
KG10A

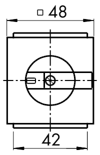






KG20A / KG32A





3-pole

Switch disconnector

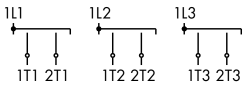
MAIN, SAFETY AND MAINTENANCE SWITCH


3-/4-pole

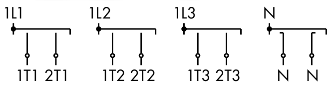
Switch disconnector

Switch disconnector according EN 60947-3, Double-throw switch 3- or 4-pole, POWER – 0 – EMERGENCY POWER IP20

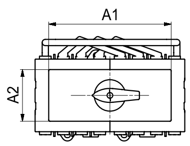
Base mounting 45 mm standard knock-out

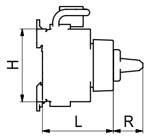



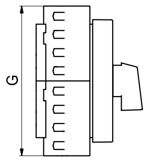
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
3-pole	3 x 400 V		
25 A	7,5 kW	KG20A.T903.VE2.F437	**70051999**
32 A	11 kW	KG32A.T903.VE2.F437	**70019595**
40 A	20 kW	KA40B.T903.VE2.F437	**70048421**
63 A	22 kW	KA63B.T903.VE2.F437	**70048423**
80 A	30 kW	KG80.T903.VE2.F437	**70052049**
100 A	37 kW	KG100.T903.VE2.F437	**70052051**
125 A	45 kW	KG125.T903.VE2.F437	**70058234**
160 A	55 kW	KG160.T903.VE2.F437	**70058232**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
4-pole	3 x 400 V		
25 A	7,5 kW	KG20A.T904.VE2.F437	**70051790**
32 A	11 kW	KG32A.T904.VE2.F437	**70052044**
40 A	20 kW	KA40B.T904.VE2.F437	**70048425**
63 A	22 kW	KA63B.T904.VE2.F437	**70048427**
80 A	30 kW	KG80.T904.VE2.F437	**70051967**
100 A	37 kW	KG100.T904.VE2.F437	**70052041**
125 A	45 kW	KG125.T904.VE2.F437	**70024912**
160 A	55 kW	KG160.T904.VE2.F437	**70058231**



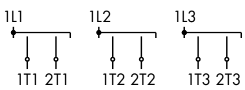




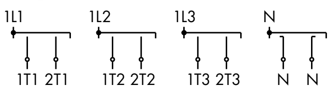
	A1	A2	G (3pol)	G (4pol)	H	L	R
KG20A, KG32A	43,7	45,4	84	111	54	64	26
KA40B, KA63B	108	45,5	100	132	64	62,6	26
KG80, KG100	70	45	140	184	80	76,2	34
KG125, KG160	112	45	224	300	108	101,5	43

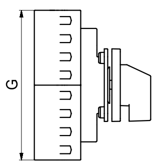
Switch disconnector according EN 60947-3, Double-throw switch, 3- or 4-pole, 1–0–2 IP66/67

Four hole panel mounting

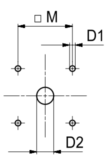



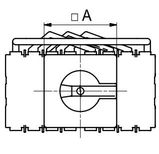
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
25 A	7,5 kW	48 x 48	KG20A.T903.E	**70017917**
		64 x 64	KG20B.T903.E	**70017977**
32 A	11 kW	48 x 48	KG32A.T903.E	**70018145**
		64 x 64	KG32B.T903.E	**70018201**
40 A	20 kW	64 x 64	KA40B.T903.E	**70034217**
63 A	22 kW	64 x 64	KA63B.T903.E	**70035184**
80 A	30 kW	64 x 64	KG80.T903.E	**70018451**
100 A	37 kW	64 x 64	KG100.T903.E	**70017628**
125 A	45 kW	88 x 88	KG125.T903.E	**70017716**
160 A	55 kW	88 x 88	KG160.T903.E	**70017780**

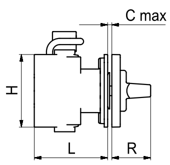





Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	3 x 400 V			
25 A	7,5 kW	48 x 48	KG20A.T904.E	**70034713**
		64 x 64	KG20B.T904.E	**70011142**
32 A	11 kW	48 x 48	KG32A.T904.E	**70018148**
		64 x 64	KG32B.T904.E	**70018203**
40 A	20 kW	64 x 64	KG41B.T904.E	**70010165**
63 A	22 kW	64 x 64	KG64B.T904.E	**70010034**
80 A	30 kW	64 x 64	KG80.T904.E	**70018454**
100 A	37 kW	64 x 64	KG100.T904.E	**70017631**
125 A	45 kW	88 x 88	KG125.T904.E	**70017718**
160 A	55 kW	88 x 88	KG160.T904.E	**70017782**



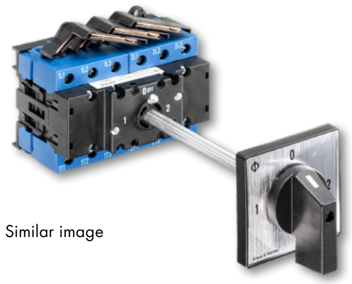




	A	C max	G (3pol)	G (4pol)	L	H	R	M	D1	D2
KG20A, KG32A	48	4	84	111	61,3	54	29,1	36	5	10
KG20B, KG32B	64	4	84	111	61,3	54	29,1	36	5	10
KA40B, KA63B	64	4	100	132	64,7	64	34,2	48	5	10
KG80, KG100	64	4	140	184	81,8	80	34,2	48	5	10
KG125, KG160	88	5,5	224	300	98	108	43,4	68	6	13

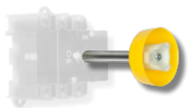
Switch disconnector according EN 60947-3, Double-throw switch 3- or 4-pole, POWER – 0 – EMERGENCY POWER IP40

Base mounting with shaft extension and door clutch M280E[1]

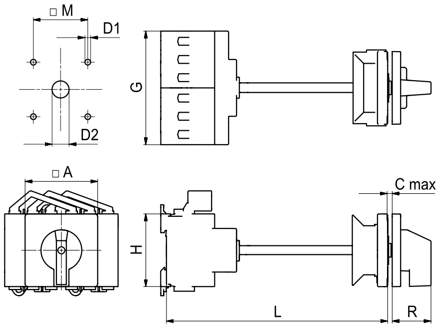


Similar image

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
3-pole	**3 x 400 V**		
25 A	7,5 kW	KG20B.T903/D-A028.VE	**70086784**
32 A	11 kW	KG32B.T903/D-A018.VE	**70086786**
40 A	20 kW	KA40B.T903.VE.DE22	**70086792**
63 A	22 kW	KA63B.T903.VE.DE22	**70086796**
80 A	30 kW	KG80.T903/D-A028.VE	**70086807**
100 A	37 kW	KG100.T903/D-A025.VE	**70038316**
125 A	45 kW	KG125.T903/D-A022.VE	**70086811**
160 A	55 kW	KG160.T903/D-A023.VE	**70086813**

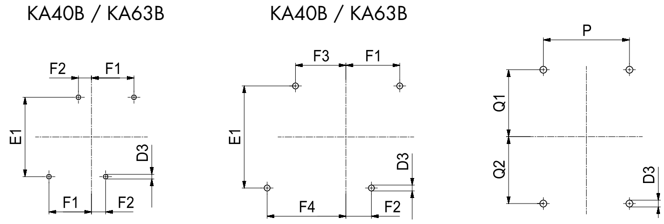


Thermal current (I_u/I_{th})	Rating AC-23B (A)	Name	Art. no.
4-pole	**3 x 400 V**		
25 A	7,5 kW	KG20B.T904/D-A019.VE	**70086823**
32 A	11 kW	KG32B.T904/D-A022.VE	**70086822**
40 A	20 kW	KA40B.T904.VE.DE23	**70086826**
63 A	22 kW	KA63B.T904.VE.DE29	**70086828**
80 A	30 kW	KG80.T904/D-A028.VE	**70053989**
100 A	37 kW	KG100.T904/D-A102.VE	**70087171**
125 A	45 kW	KG125.T904/D-A044.VE	**70075842**
160 A	55 kW	KG160.T904/D-A103.VE	**70087172**

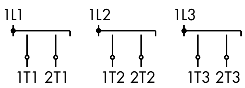


Mounting plate

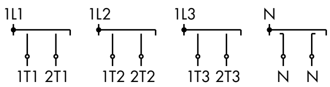
3-pole	4-pole	3-/4-pole
KG20B–KG100 KA40B / KA63B	KG20B–KG100 KA40B / KA63B	KG125–KG160



3-pole



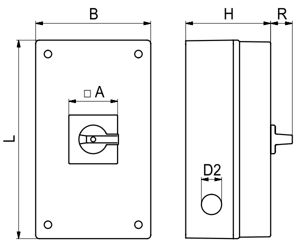
4-pole



	A	G (3pol)	G (4pol)	L	H	R	M	D1	D2	D3	E1	F1	F2	F3	F4	P	Q1/Q2	Cmax
KG20B, KG32B	64	84	111	190	54	29,1	48	5	19-22	4,1	60	32	10	23,5	45,5	–	–	4
KA40B	64	100	132	190	64	34,2	48	5	19-22	4,1	70	37,5	12,5	28,5	53,5	–	–	4
KA63B	64	100	132	330	64	34,2	48	5	19-22	4,1	70	37,5	12,5	28,5	53,5	–	–	4
KG80	64	140	184	380	80	34,2	48	5	19-22	5,2	90	47,5	22,5	44,5	69,5	–	–	4
KG100	64	140	184	450	80	34,2	48	5	19-22	5,2	90	47,5	22,5	44,5	69,5	–	–	4
KG125, KG160[2]	88	224	300	450	108	43,4	68	6	26-30	6	–	–	–	–	–	76	59-61	5,5

[1] without door locking system | [2] not for DIN rail

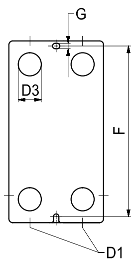
Switch disconnector according EN 60947-3, Double-throw switch in enclosure[3], 3- or 4-pole,, POWER – 0 – EMERGENCY POWER IP66/67



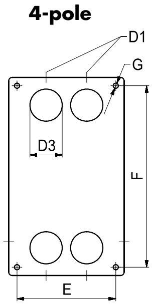
Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	**3 x 400 V**			
25 A	7,5 kW	48 x 48	KG20B.T903.KL10.F437	**70052040**
32 A	11 kW	48 x 48	KG32B.T903.KL10.F437	**70051965**
40 A	20 kW	64 x 64	KA40B.T903.KL70.F437	**70048429**
63 A	22 kW	64 x 64	KA63B.T903.KL70.F437	**70048431**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
4-pole	**3 x 400 V**			
25 A	7,5 kW	48 x 48	KG20B.T904.KL10.F437	**70051982**
32 A	11 kW	48 x 48	KG32B.T904.KL10.F437	**70051994**
40 A	20 kW	64 x 64	KA40B.T904.KL70.F437	**70048433**
63 A	22 kW	64 x 64	KA63B.T904.KL70.F437	**70048435**

3-pole



4-pole



		Mounting	A	B	D1	D2	D3	E	F	G	H	L	R
3pol	KG20B, KG32B	KL10	62	100	M25	M25	M25	–	177	5,6	91,2	190	28
4pol	KG20B, KG32B	KL10	62	145	M25/40	M25	M40	124	229	6,5	107,4	250	28
	KA40B, KA63B	KL70	62	145	M25/40	M25	M40	124	229	6,5	107,4	250	28

[3] Enclosure without cover interlock

MAIN, SAFETY AND MAINTENANCE SWITCH


Accessories

Solder Joint Terminal

Direct mounting on printed board

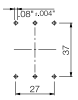
KG21A, KG33A

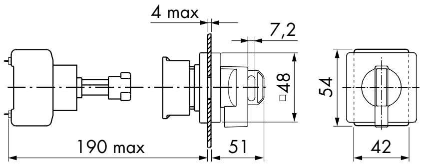
This switch will be used when a circuit breaker is needed directly on a circuit board.

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
25 A	7,5 kW	48 x 48	KG21A.T203/68.VE	**70040465**
32 A	11 kW	48 x 48	KG33A.T203/68.VE	**70048873**

Thermal current (I_u/I_{th})	Rating AC-23B (A)	Face plate	Name	Art. no.
3-pole	3 x 400 V			
25 A	7,5 kW	48 x 48	KG21A.T103/68.VE	**70048765**
32 A	11 kW	48 x 48	KG33A.T103/68.VE	**On request**

Printed board

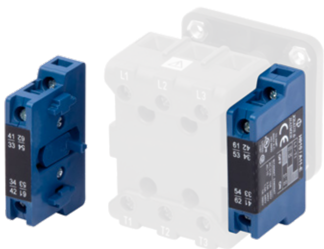




Maximum number of padlocks		
Face plate	Shackle-∅	Number of padlocks
48 x 48	7	3
	5	4

Auxiliary contacts, Ground/Neutral terminals, Neutral contacts for KG-series

Auxiliary contacts: NO quasi immediately closing with main contacts, NO lagging see next page



KG20–KG100C: 1 NO + 1 NC, KG125–KG317: 2 NO + 1 NC

Auxiliary contact blocks for mounting E, FT1, FT2	not overlapping		overlapping	
KG20–KG32B	K0.H010/A11-E	**2148130**	K0.H010/B11-E	**2148141**
KG41–KG64B	K1.H010/A11-E	**2148548**	K1.H010/B11-E	**2148560**
KG80–KG100C	K2.H010/A11-E	**2138586**	K2.H010/B11-E	**2149137**
KG125–KG160	K3A.H010/A21-E	**2150117**	K3A.H010/B21-E	**2150127**
KG210–KG317	K3.H010/A21-E	**2149795**	K3.H010/B21-E	**2149805**

Auxiliary contact blocks for mounting VE, VE2, enclosures	not overlapping		overlapping	
KG20–KG32B	K0.H010/A11-VE	**2000018**	K0.H010/B11-VE	**2148143**
KG41–KG64B	K1.H010/A11-VE	**2148551**	K1.H010/B11-VE	**2148562**
KG80–KG100C	K2.H010/A11-VE	**2149126**	K2.H010/B11-VE	**2149139**
KG125–KG160	K3A.H010/A21-VE	**2150121**	K3A.H010/B21-VE	**2150128**
KG210–KG317	K3.H010/A21-VE	**2149799**	K3.H010/B21-VE	**2149806**

Connection description of auxiliary contacts				
KG20–KG100C	E, FT1, FT2 left	E, FT1, FT2 right	VE, VE2, enclosures left	VE, VE2, enclosures right
not overlapping	33 41 / 34 42	53 61 / 54 62	31 43 / 32 44	51 63 / 52 64
overlapping	33 41 / 34 42	53 61 / 54 62	31 43 / 32 44	51 63 / 52 64

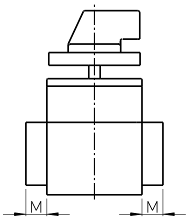
KG125–KG317[2]	E, FT1, FT2 left	E, FT1, FT2 right		VE, VE2, enclosures left	VE, VE2, enclosures right	
not overlapping	031 – 032	061 – 062	NC Oben	011 – 012	041 – 042	NC Oben
	023 – 024	053 – 054	NO Mitte	023 – 024	053 – 054	NO Mitte
	013 – 014	043 – 044	NO Unten	033 – 034	063 – 064	NO Unten
overlapping	031 – 032	061 – 062	NC Oben	011 – 012	041 – 042	NC Oben
	023 – 024	053 – 054	NO Mitte	023 – 024	053 – 054	NO Mitte
	013 – 014	043 – 044	NO Unten	033 – 034	063 – 064	NO Unten

[2] 4-pole main switches, only 1 auxiliary contact can be mounted on the left side.
4-pole Change-over switches, no auxiliary contact can be mounted.

	Ground terminal		Neutral terminal		Neutral contact	
KG20–KG32B	K0.H052/A **2000019**	[1]	K0.H053/A **2000020**	[1]	-	
KG41–KG64B	K1.H052/B **2145758**	[1]	K1.H053/B **2145760**	[1]	-	
KG80–KG100C	**2146137**	[1]	K2.H053/C **2146139**	[1]	-	
KG125	K3.H052/H **On request**	-E	K3.H053/H **On request**	-E	K3.H050/P **On request**	-E
KG126	K3.H052/J **On request**	-E	K3.H053/J **On request**	-E	K3.H050/Q **On request**	-E
KG127	K3.H052/K **On request**	-E	K3.H053/K **On request**	-E	K3.H050/R **On request**	-E
KG160	K3.H052/H **On request**	-E	K3.H053/H **On request**	-E	K3.H050/S **On request**	-E
KG161	K3.H052/J **On request**	-E	K3.H053/J **On request**	-E	K3.H050/T **On request**	-E
KG162	K3.H052/K **On request**	-E	K3.H053/K **On request**	-E	K3.H050/U **On request**	-E
KG210, KG250	K3.H052/D **On request**	-E	K3.H053/D **On request**	-E	K3.H050/G **On request**	-E
KG211, KG251	K3.H052/E **On request**	-E	K3.H053/E **On request**	-E	K3.H050/H **On request**	-E
KG212, KG252	K3.H052/F **On request**	-E	K3.H053/F **On request**	-E	K3.H050/J **On request**	-E
KG315	K3.H052/D **On request**	-E	K3.H053/D **On request**	-E	K3.H050/K **On request**	-E
KG316	K3.H052/L **On request**	-E	K3.H053/L **On request**	-E	K3.H050/L **On request**	-E
KG317	K3.H052/M **On request**	-E	K3.H053/M **On request**	-E	K3.H050/M **On request**	-E
E		-E		-E		-E
VE, Enclosures		-VE		-VE		-VE

Only factory made. Only factory made. Only factory made.

[1] Usable for E and VE mounting



	M	
	Auxiliary contacts	Ground, neutral, add. main contact
KG20–KG32B	10	13,5
KG41–KG64B	11	16
KG80–KG100C	11	22
KG125–KG162	14	38
KG210–KG317	14	52,5

Cam operated or rack operated auxiliary contacts

Bestellangabe: Anzahl und Arbeitsweise der Hilfskontakte und die Art des Kontaktsystems.

NO nacheilend ein bzw. voreilend aus (Zum Nachrüsten nur NO quasi gleichschließend auf vorhergehender Seite)

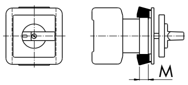
M510A

Cam operated auxiliary contacts KG20 – KG100C
(only factory provided)

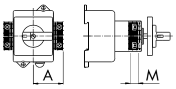
All switches can be prepared with max. 4 auxiliary contacts.

You can choose between contact systems with a rigid contact bridge for high AC-15 switching capacity and contacts with gold plating for low voltage or low current. Special programs are available.

E, FT1, FT2



VE, VE2, Gehäuse



Type	M (E, FT1, FT2) 1 or 2 contacts	M (E, FT1, FT2) 3 or 4 contacts	A	M (VE, VE2, enclosures) 1 or 2 contacts	M (VE, VE2, enclosures) 3 or 4 contacts
KG20–KG32B	9	25,8	-	9	25,8
KG41–KG64B	10	30	-	10	30
KG80–KG100C	10	30	47,2	10	30

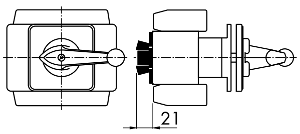
M510B

Rack operated auxiliary contacts KG125 – KG317
(only factory provided)

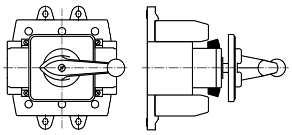
The Switch types KG125-KG162 can be used with max. 4 and the Switch types KG210-KG317 with max. 6 auxiliary contacts.

You can choose between contact systems with a rigid contact bridge for high AC-15 switching capacity and contacts with gold plating for low voltage or low current.

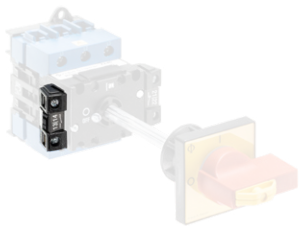
E



VE



M510C



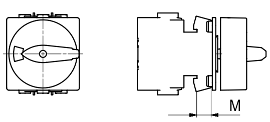
Cam operated auxiliary contacts KA40 – KA63B
(only factory provided)

All switches can be prepared with max. 4 auxiliary contacts.

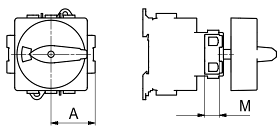
You can choose between contact systems with a rigid contact bridge for high AC-15 switching capacity and contacts with gold plating for low voltage or low current. Special programs are available.

Type	M (E, FT1, FT2) 1 or 2 contacts	M (E, FT1, FT2) 3 or 4 contacts	A	M (VE, VE2, Gehäuse) 1 or 2 contacts	M (VE, VE2, Gehäuse) 3 or 4 contacts
KA40–KA63B	12,4	32,4	38,9	12,4	32,4

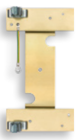
E, FT1, FT2



VE, VE2, Enclosure

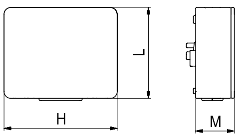


Accessories



Accessories

Auxiliary contacts, Ground/Neutral terminals for KA-series

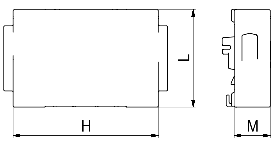


H	L	M
50	40,2	17,1

Lateral auxiliary contact 1NO + 1NC

Mounting	Name	Art. no.
Front mounting	K1.H010C/A11-A	**2240561**
DIN rail mounting	K1.H010C/A11-B	**2240563**

Connection description of auxiliary contacts KA-series								
	E, FH3				VE, enclosures			
	left		right		left		right	
Number AUX-blocks	1	3	2	4	1	3	2	4
H010C/ A11...	C21 C13 / C22 C14	C61 C53 / C62 C54	C41 C33 / C42 C34	C81 C73 / C82 C74	C23 C11 / C24 C12	C63 C51 / C64 C52	C43 C31 / C44 C32	C83 C71 / C84 C72



H	L	M
64	42,9	16

Ground terminal (PE)

Mounting	Name	Art. no.
Frontmounting	K1.H052C/A1-A	**2307944**
Frontmounting	K1.H052C/A2-A	**2308043**
DIN rail mounting	K1.H052C/A1-B	**2307945**
DIN rail mounting	K1.H052C/A2-B	**2308042**

Neutral terminal (N)

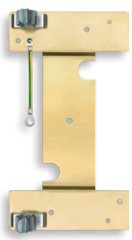
Mounting	Name	Art. no.
Frontmounting	K1.H053C/A1-A	**2307946**
Frontmounting	K1.H053C/A2-A	**2308044**
DIN rail mounting	K1.H053C/A1-B	**2307989**
DIN rail mounting	K1.H053C/A2-B	**2308045**

Additonal PE-/N-terminals for KS- and KL-enclosures

The enclosures are already equipped with a PE terminal.

Enclosures	Single-core or stranded wire	Flexible wire sleeving / without sleeve	Name	Art. no.
KS51V, KL51V, KS11V	max. 2 x 6 mm²	max. 2 x 4 mm²	K0B.T410.A	**2000290**
KL11V	max. 2 x 10 mm²	max. 2 x 6 mm²	K1B.T410.A	**2000625**
KL71V	max. 2 x 35 mm²	max. 2 x 25 mm²	K2B.T410.A.DE21	**2345362**

Shield wheeling kits for retrofitting (EMC application) KS- and KL-enclosures



Shielding clamp suitable for double side connecting. Scope of delivery: panel sheet, 2 shielding clamps, mounting screws

Shield wheeling kit available for 3 pole switches up to KG100.... And 6 pole switches up to KG64. All relevant catalogue listed maintenance switches can be upgraded with shield wheeling kits. The switch body has to be demounted first before mounting the shield wheeling.

Standard KS- and KL-enclosures				
Size enclosure	85 x 120	85 x 160	100 x 190	145 x 250
External-Ø shield	9 – 11	12 – 16	12 – 16	23 – 29
Name Art. no.	S0E.T400.MA **2034380**	K0B.T400.MA **2148422**	K1B.T400.MA **2148858**	K2B.T400.MA **2149381**

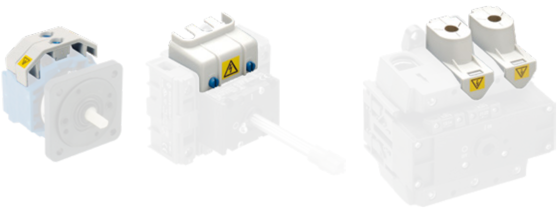
Shielding clamp (separate) incl. mounting screws

Shielding clamp (separate)				
External-Ø shield	3 – 6	6 – 8	9 – 11	12 – 16
Name Art. no.	K1B.T400.KG **2172267**	K1B.T400.KF **2148857**	K1B.T400.KB **2148854**	K1B.T400.KC **2138231**
External-Ø shield	17 – 22	23 – 29		
Name Art. no.	K1B.T400.KD **2148855**	K1B.T400.KE **2148856**		

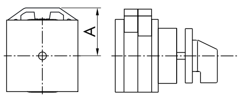
Protective covers

The terminals of the Switch types KG10-KG160 are according to EN 50274 and BGV A3 finger-proof, and up to KG64 also IP20.
KG80 to KG160 has one terminal cover and from KG210 to KG315 they have two terminal covers included in the scope of delivery of the MAIN, SAFETY AND MAINTENANCE SWITCH.

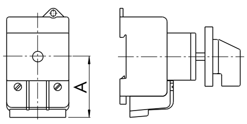
For KG-Switch with Box Terminal



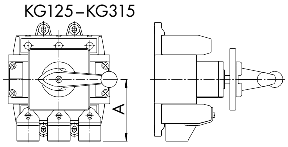
KG10A; KG10B



KG20–KG80C



KG125–KG315



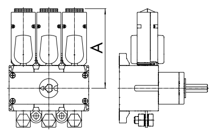
Scope of delivery: single side terminal covers

Switch type	2-pole		3- and 4-pole	
	Name	Art. no.	Name	Art. no.
KG10A, KG10B	S0.M160/A12	**2003618**	S0.M160/A12.K2	**2026554**
	3-pole		4-pole	
KG20A, KG20B KG32A, KG32B	K0.M160/3	**2145329**	K0.M160/4	**2145330**
KG41, KG41B KG64, KG64B	K1.M160/3	**2139001**	K1.M160/4	**2145762**
KG80, KG80C KG100, KG100C	K2.M160/3	**2146141**	K2.M160/4	**2146142**
KG125, KG160	K3.M160/32	**2149933**	K3.M160/42	**2149938**
KG210, KG250 KG315	K3.M160/30	**2149931**	K3.M160/40	**2149936**

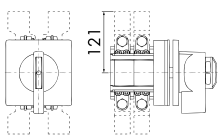
	A
KG10A/KG10B	30
KG20–KG32B	47
KG41–KG64B	49
KG80–KG100C	66
KG125, KG160	76,2
KG210, KG250, KG315	88

For KG-switch with bolt terminal and C316

KG



C316

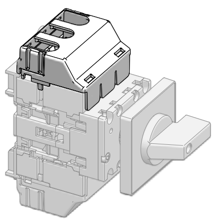


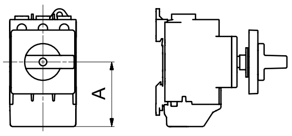
Scope of delivery: for the KG-switches one terminal cover for one side and for the C316 one terminal.

Switch type	3-pole		4-pole	
	Name	Art. no.	Name	Art. no.
KG126/127, KG161/162	K3.M160/33	**2149935**	K3.M160/43	**2149940**
KG211/212, KG251/252 KG316/317	K3.M160/31	**2149932**	K3.M160/41	**2149937**
C316	Cover for one terminal			
	S3.M160/E06	**2016947**		

	A
KG126/127, KG161/162	112
KG211/212, KG251/252, KG316/317	160

For KA-switch





	Front mounting		DIN rail mounting	
	Name	Art. no.	Name	Art. no.
3-pole	K1.M160/36	**2313340**	K1.M160/36	**2313340**
4-pole	K1.M160/46	**2313239**	K1.M160/46	**2313239**

	A
KA40, KA63	48,5

Accessories

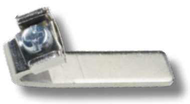
Terminals for control circuit

For KA- and KG-switches with box terminal or bolt terminal

2001033 | K3A.D720.KS
2001142 | K3B.D520.KS
2148762 | K1B.D220.KS
2149289 | K2B.D520.KSA

Switch type	Name	Art. no.	Max. wire gage mm²	
			single or multiple wire	flexible wire
KA40–KA63, KG41–KG64B	K1B.D220.KS	**2148762**	2,5 mm²/AWG12	2,5 mm²/AWG14
KG80–KG100C	K2B.D520.KSA	**2149289**	2,5 mm²/AWG12	2,5 mm²/AWG14
KG125–KG162	K3A.D720.KS	**2001033**	4 mm²/AWG10	4 mm²/AWG12
KG210–KG317, C316	K3B.D520.KS	**2001142**	4 mm²/AWG10	4 mm²/AWG12

For KG-double-throw switch with box terminal incl. connecting bridge



Switch type	Name	Art. no.	Max. wire gage mm²	
			single or multiple wire	flexible wire
KG80–KG100C [1]	K2B.D520.KSB	**2149290**	2,5 mm²/AWG12	2,5 mm²/AWG14

[1] not finger-proof

Connections aids

For KG-switches with bolt terminal

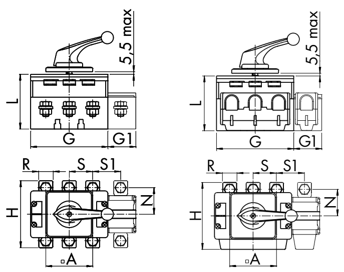
Switch type	Name	Art. no.
KG126/127/161/162	K3A.D720.09	**2146346**

Bolt terminal, ON-OFF switch 3- and 4-pole

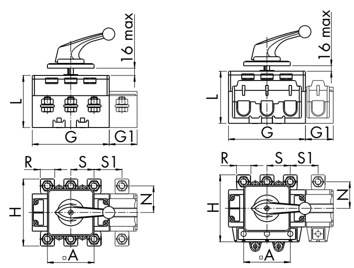
KG-switches from KG125 can be supplied with bolt terminals on both sides, or with bolt terminal on top and box terminal at the bottom.

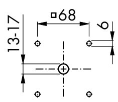
Rated continuous current (I_u/I_{th})	Bolt terminal top and bottom Name	Bolt terminal on top Box terminal at the bottom Name
3-pole, 4-pole		
125 A	KG126	KG127
160 A	KG161	KG162
200 A	KG211	KG212
250 A	KG251	KG252
315 A	KG316	KG317

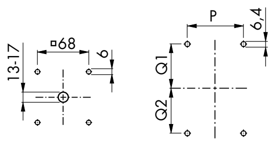
4-hole panel mounting



Base mounting







4-hole panel mounting	A	G	G1¹	H	L	N	R	S	S1
KG126, KG127, KG161, KG162	88	112	38	110	96	45	20	36	38
KG211, KG212, KG251, KG252	88	145	52,5	126	103	50	26	44	52,5
KG316, KG317	88	145	52,5	126	103	50	26	52	52,5

Base mounting	A	G	G1¹	H	L	N	R	S	S1
KG126, KG127 KG161, KG162	88	112	38	110	91	45	20	36	38
KG211, KG212, KG251, KG252	88	145	52,5	126	98	50	26	44	52,5
KG316, KG317	88	145	52,5	126	98	50	26	52	52,5

	P	Q1	Q2
KG126, KG161	36	38–40	38–40
KG127, KG162	36	38–40	59–61
KG211, KG251, KG316	44	40–42	40–42
KG212, KG252, KG317	44	40–42	70–72

¹ For ON/OFF switch 4-pole

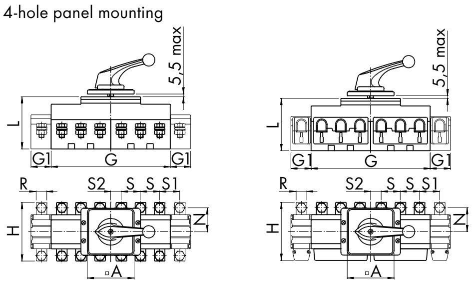
Bolt terminal, ON-OFF switch 6- and 8-pole, Double-throw switch 3- and 4-pole

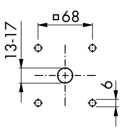
KG-switches KG125 and KG160 can be supplied with bolt terminals on both sides, or with bolt terminal on top and box terminal at the bottom.

Rated continuous current (I_u/I_{th})	Bolt terminal top and bottom ¹ Name	Bolt terminal on top Box terminal at the bottom ² Name
ON/OFF switch 6- und 8-pole, double-throw switch 3- and 4-pole		
125 A	KG126	KG127
160 A	KG161	KG162

¹ Double-throw switch without jumpers
² Double-throw switch jumpers at the bottom

4-hole panel mounting

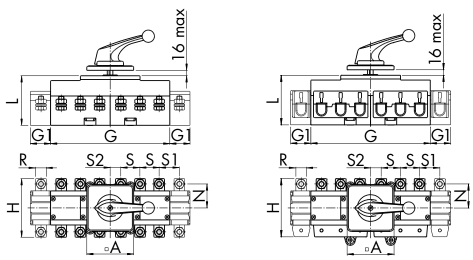


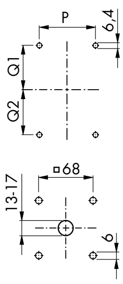


	A	G	G1¹	H	L	N	R	S	S1	S2
KG126, KG161	88	224	38	110	98	45	20	36	38	20
KG127, KG162	88	224	38	110	98	45	20	36	38	20

¹ For ON/OFF switch 8-pole and Double-throw switch 4-pole

Base mounting





	A	G	G1¹	H	L	N	R	S	S1	S2
KG126, KG161	88	224	38	110	93	45	20	36	38	20
KG127, KG162	88	224	38	110	93	45	20	36	38	20

¹ For ON/OFF switch 8-pole and Double-throw switch 4-pole

	P	Q1	Q2
KG126, KG161	76	38–40	38–40
KG127, KG162	76	38–40	59–61

Accessories

Special tool to unlock the door clutch M700/.

2147032 | S1D.M700.09

To open the door in ON-position at any case of service and maintenance.

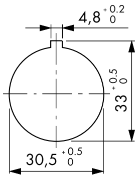
Accessory single hole mounting

Nut key for fixation,
Single hole mounting 16, 22 and 30 mm

2005361 | S00.T170.09

Adaptor ring for single hole mounting 22 mm to Ø 30 mm

2010455 | S0E.T160.01



Mounting nut for 5 – 8 mm switch panel, 22 mm

2010475 | S0E.T170.09

Metal ring to enhance protection against twist, 22 mm

2014926 | S1D.V844.05

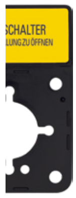
Mounting screws

Usually included

Self-tapping screw	4,7x13
2015269 | S1E.T100.N	4er Pack
2015266 | S1E.T100.10	1 Stück

For increased wall thicknesses

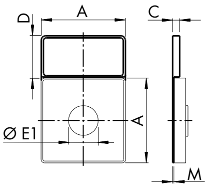
Self-tapping screw	4,7x19
2015268 | S1E.T100.11	1 Stück
Self-tapping screw	4,7x30
2217118 | S1E.T100.13	1 Stück



Add-on face plates for main switches

Large title block, face plate frame black

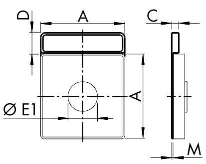
Inscription	Face plate size	Name	Art. no.	Name	Art. no.
Face plate background		yellow	brushed alu	Alu gebürstet	
MAIN SWITCH	48 X 48	S0.F822/E1B.PRA	**2145315**	S0.F822/A1B.PRA	**2145313**
	64 X 64	S1.F822/E1B.PRA	**2039498**	S1.F822/A1B.PRA	**2039493**
	88 X 88	S2.F822/E1B.PRA	**2049740**	S2.F822/A1B.PRA	**2049738**
	130 X 130	S3.F822/E1B.PRA	**2052458**	S3.F822/A1B.PRA	**2052457**
MAIN SWITCH Only open in 0-position	48 X 48	S0.F832/E1B.PRA	**2169151**	S0.F832/A1B.PRA	**2169150**
	64 X 64	S1.F832/E1B.PRA	**2039516**	S1.F832/A1B.PRA	**2169156**
	88 X 88	S2.F832/E1B.PRA	**2049746**	S2.F832/A1B.PRA	**2049745**
	130 X 130	S3.F832/E1B.PRA	**2052458**	S3.F832/A1B.PRA	**2052459**
MAIN SWITCH	48 X 48	S0.F836/E1B.PRA	**2138190**	S0.F836/A1B.PRA	**2138499**
	64 X 64	S1.F836/E1B.PRA	**2137277**	S1.F836/A1B.PRA	**2039521**
	88 X 88	S2.F836/E1B.PRA	**2152044**	S2.F836/A1B.PRA	**2152043**
	130 X 130	S3.F836/E1B.PRA	**2169165**	S3.F836/A1B.PRA	**2169164**
MAIN SWITCH	48 X 48	S0.F824/E1B.PRA	**2145316**	S0.F824/A1B.PRA	**2138841**
	64 X 64	S1.F824/E1B.PRA	**2039506**	S1.F824/A1B.PRA	**2137173**
	88 X 88	S2.F824/E1B.PRA	**2152034**	S2.F824/A1B.PRA	**2049743**
	130 X 130	S3.F824/E1B.PRA	**2169161**	S3.F824/A1B.PRA	**2169160**
MAIN SWITCH OPEN IN OFF-POSITION	48 X 48	S0.F838/E1B.PRA	**2216214**	S0.F838/A1B.PRA	**2326533**
	64 X 64	S1.F838/E1B.PRA	**2314314**	S1.F838/A1B.PRA	**2217312**
	88 X 88	S2.F838/E1B.PRA	**2169377**	S2.F838/A1B.PRA	**2216913**
	130 X 130	S3.F838/E1B.PRA	**2330976**	S3.F838/A1B.PRA	**2326534**
WITHOUT	48 X 48	S0.F991/E0B.PRA	**2026078**	S0.F991/A0B.PRA	**2026013**
	64 X 64	S1.F991/E0B.PRA	**2039958**	S1.F991/A0B.PRA	**2039901**
	88 X 88	S2.F991/E0B.PRA	**2152085**	S2.F991/A0B.PRA	**2049854**
	130 X 130	S3.F991/E0B.PRA	**2137208**	S3.F991/A0B.PRA	**2052542**



Size	A	C	D	E1	M
S0	48	4	24	22	0,7
S1	64	5	28	22/39,7	0,8
S2	88	6	36	39,7	1
S3	130	7	50	39,7	1,2

Flat inscription field, face plate frame black

Inscription	Face plate size	Name	Art. no.	Name	Art. no.
Face plate background		yellow		brushed alu	
MAIN SWITCH	48 X 48	S0.F822/E1B.PRC	**2025613**	S0.F822/A1B.PRC	**2145314**
	64 X 64	S1.F822/E1B.PRC	**2039499**	S1.F822/A1B.PRC	**2039494**
MAIN SWITCH Only open in 0-position	48 X 48	S0.F832/E1B.PRC	**2169152**	S0.F832/A1B.PRC	**2138222**
	64 X 64	S1.F832/E1B.PRC	**2039517**	S1.F832/A1B.PRC	**2039515**
MAIN SWITCH	48 X 48	S0.F836/E1B.PRC	**2137780**	S0.F836/A1B.PRC	**2138412**
	64 X 64	S1.F836/E1B.PRC	**2039523**	S1.F836/A1B.PRC	**2137805**
MAIN SWITCH	48 X 48	S0.F824/E1B.PRC	**2150406**	S0.F824/A1B.PRC	**2025615**
	64 X 64	S1.F824/E1B.PRC	**2039507**	S1.F824/A1B.PRC	**2039503**
MAIN SWITCH OPEN IN OFF-POSITION	48 X 48	S0.F838/E1B.PRC	**2234680**	S0.F838/A1B.PRC	**2170057**
	64 X 64	S1.F838/E1B.PRC	**2235505**	S1.F838/A1B.PRC	**2137895**
without	48 X 48	S0.F991/E0B.PRC	**2026079**	S0.F991/A0B.PRC	**2026015**
	64 X 64	S1.F991/E0B.PRC	**2039959**	S1.F991/A0B.PRC	**2039902**



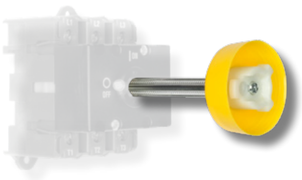
Size	A	C	D	E1	M
S0	48	4	12	22	0,7
S1	64	5	15	22/39,7	0,8

Integrated door clutch for enclosures

Door clutch with four hole mounting

Necessary ordering information: Entire mounting depth from switch incl. door clutch.

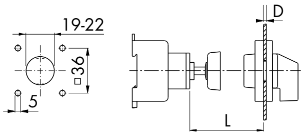
M280E/.-EF



With shaft extension, IP66/67 in front

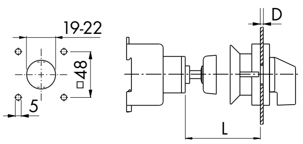
When a padlock device is required, please specify.

	Model
M280E/ A 2	*1 S-EF*
A	= Without interlock by door clutch
B	= With interlock by door clutch
C	= With interlock by a connecting rod
D	= With interlock by door clutch and a connecting rod
	= Dimension L see the below



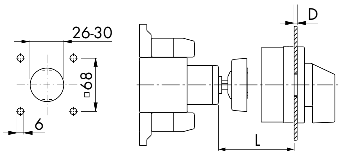
Face plate 48 x 48: KG10A, KG20A, KG32A

Face plate 48 x 48	D	1 L	2 L	3 L	4 L	Z
KG10A	4,0	36–55	56–75	75–95	96–116	100
KG20A, KG32A	4,0	58,5–66	78,5–86	98,5–106	118,5–126	100



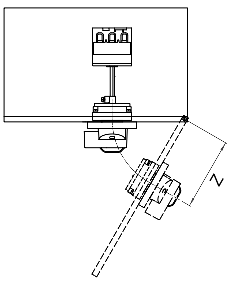
Face plate 64 x 64: KG10B, KG20B, KG32B, KG41B
KG64B, KG80, KG100

Face plate 64 x 64	D	1 L	2 L	3 L	4 L	Z
KG10B	4,0	32–57	58–77	78–97	98–118	100
KG20B, KG32B	4,0	57,5–65	77,5–85	97,5–105	117,5–125	100
KG41B, KG64B	4,0	62–72	82–92	102–112	122–132	100
KG80, KG100	4,0	60–70	80–90	100–110	120–130	100



Face plate 88 x 88: KG125–KG317

Face plate 88 x 88	D	1 L	2 L	3 L	4 L	Z
KG125–KG317	5,5	93–109	123–139	153–169	183–199	110



Hinge distance

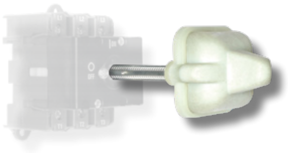
For switch size see page 116.

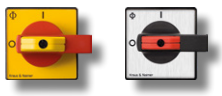
Padlock device with integrated door clutch for control panel

Door clutch with four hole mounting, IP66

Ordering Example: Entire mounting depth from switch incl. door clutch.

M700/.



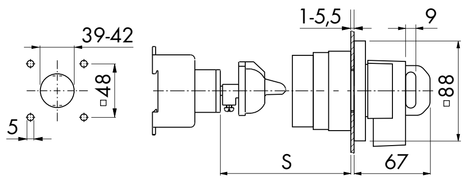


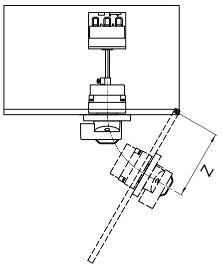
Handle lockable with padlocks

The M700/ provides multiple lock functions. Standard operation: cabinet door is locked in position "I" and can only be opened in position "0". With a special tool (included in the package) the door lock in "I" position can be permanently removed. Maintenance operation: After a padlock device is applied (only possible in "0" position) cabinet door and switch are locked. A maximum of 4 padlocks with max. 5 mm U-bolt diameter or 3 padlocks with max. 8 mm U-bolt diameter are possible. When the center of the shaft is OFFset by ± 5 mm compared to the door coupling, this will be compensated.

A shaft extension is required.

Coloring		Face plate	Handle	Lock bar
M700/A				
A	=	Brushed Alu	black	red
B	=	Brushed Alu	red	yellow
C	=	Brusch black	black	red
D	=	Brusch black	red	yellow
E	=	Yellow	red	yellow





	S min	Z
KG20B, KG32B	64,5	100
KG41B, KG64B	64,5	100
KG80, KG100	64,5	100
KG125–KG317	74	100

For switch size see page 116.

Unlock insert for door clutch M700/.

2014491 | S1D.M700.29

Enables door opening in „On“ position and permanently defeating the interlock. (After inactivation the interlock it is mandatory to take effective precaution measures to prevent unauthorized person from opening the door.)

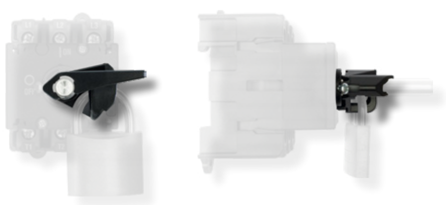
Switch-side padlock device in combination with M700 acc. to UL508A [1]

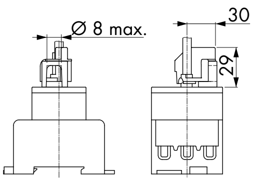
For asymmetric profile

(only factory provided)

V841/.

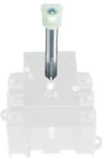
Padlock device for base mounting switches to mount padlocks when the switch cabinet is open. (Not for KG10)





[1] KG Switch types are according UL508 and CSA-22.2 Nr. 14-05 als „disconnect switches for use in motor circuits“ approved and only for use in the branch circuit.

Optional extras – Optional extras for customizing (available only in combination with a switch)

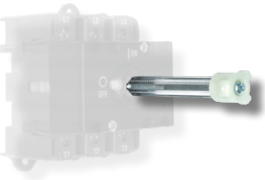



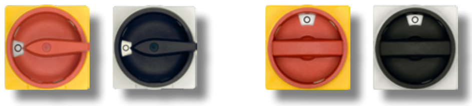
Padlock device with integrated door clutch for enclosures and control panel

Door clutch with single hole mounting 22 mm, IP66

Necessary ordering information: Entire mounting depth from switch incl. door clutch.

V840D
V840G
V840G/B





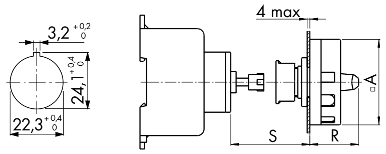
For 2 padlocks with F-handle,, (KG..A)
For 3 padlocks with F-handle,, (KG10B–KG100)
For 3 padlocks with B-handle,, (KG10B–KG100)

A shaft extension is required.

(Lockable at 9:00 o'clock)

The background is available in black, yellow and electro gray. Handle is available in black, red or electro gray.

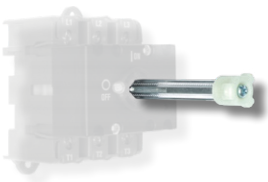
	S min.	A	V840D,V840G	V840G/B R
KG10A	30	48	33	-
KG10B	30	64	40,1	29,6
KG20A, KG32A	27,5	48	33	-
KG20B, KG32B	27,5	64	40,1	29,6
KG41B, KG64B	39,5	64	40,1	29,6
KG80, KG100	27,5	64	40,1	29,6

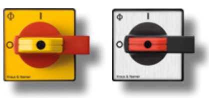


For switch size see page 116.

Door clutch with single hole mounting 22 mm, IP66

V845





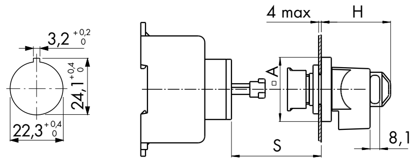
For 4 padlocks (actuation the locking flag from front)

A shaft extension is required.

(Lockable at 9:00 + 12.00 o'clock)

Handle is available in black, yellow and electro gray. Face plate available in yellow or brushed aluminium.

	A	H	S min.
KG10A	48	52	30
KG10B	64	58	26
KG20A, KG32A	48	52	50,5
KG20B, KG32B	64	58	27,5
KG41B, KG64B	64	58	39,5
KG80, KG100	64	58	27,5

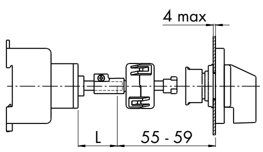


For switch size see page 116.

Centering for door clutches size S1

M600

Inaccuracies in assembling between shaft and and drive are, in all 4 directions ± 5 mm, balanced..



Dimension "L" on request.

Padlock device with integrated door clutch

Necessary ordering information: Entire mounting depth from switch incl. door clutch.

Door clutch with single hole mounting 22 mm, IP66/67

M800/.
M810/.

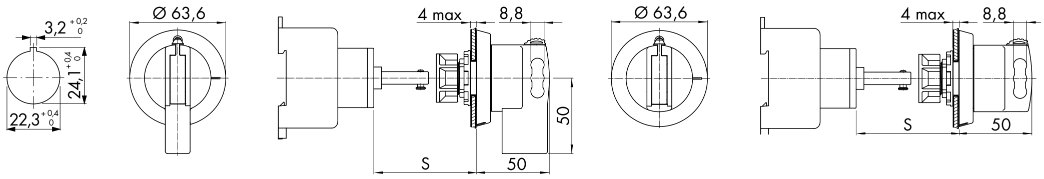
M800 M810

Handle lockable with padlocks (from KG41B)
With shortened handle (KG41B–KG100)

Additional shaft extension is required.

The M800/M810 provides multiple lock functions. Standard operation: cabinet door is locked in position "I" and can only be opened in position "0". Maintenance operation: After a padlock device is applied (only possible in "0" position) cabinet door and switch are locked. To allow in special cases maintenance under voltage the M800/M810 does have an "override function" which enables to open the cabinet door as well in the "I" position. Further features are the single hole mounting and the centering aid up to ± 3 mm horizontally and ± 5 mm vertically. Maximum 3 padlocks with min. 5 to max. 7.5 mm U-bolt diameter are possible. The maximum free length of shaft is 120 mm

Coloring	Front ring	Handle	Lock bar
M800/ + M810/ A			
A =	black	black	red
B =	yellow	red	yellow



	S min.
KG41B, KG64B	59
KG80, KG100	56
KG125–KG317	56

For switch size see page 116.

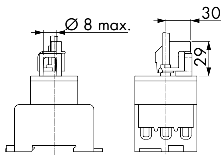
Switch-side padlock device in combination with M800 and M810 acc. to UL508A [1]

For square profile

V842.

(only factory provided)

Padlock device for switches in base mounting for applying a padlock at open cabinet door. (Not for KG10)

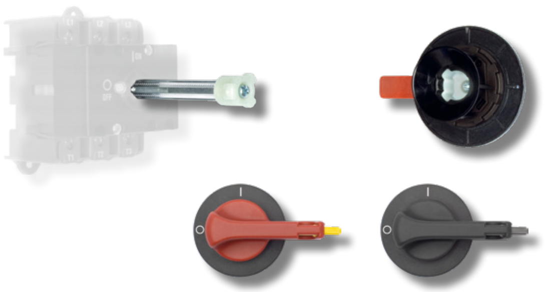


[1] Switch types of the KG series are according to UL508 and CSA-22.2 no. 14-05 approved as "disconnect switches for use in motor circuits" for use in branch circuit only.

Padlock device with integrated door clutch for low installation depth

Door clutch with single hole mounting 22 mm, IP66

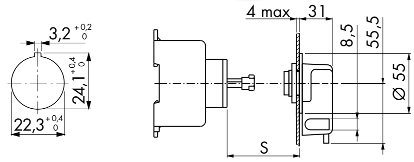
V840E



With padlock device
A shaft extension is required

(Lockable at 9:00 o'clock)

Coloring	Plate ring	Handle	Lock bar
V840E/E/ 2			
2 =	black	red	yellow
5 =	black	black	black



	S min.
KG10B	23
KG20B, KG32B	24,5
KG41B, KG64B	20
KG80, KG100	23
KG125–KG317 [1]	21

[1] Only for ON/OFF switch 3 and 4 pole

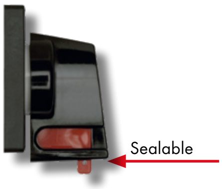
For Switch size dimensions see page 116.



Padlock device

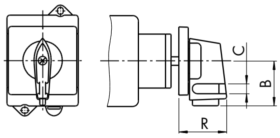
Sealable

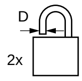
V840A

The padlock device is an integral part of the switch handle and can hold 2 padlocks and sealing

Handle available in the colors black, red and electrogray. Faceplate background availa- colors yellow or aluminum brushed.
Both positions lockable on request.





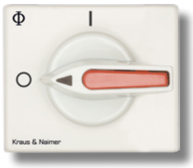
Size	B	C	R	D in mm [1, 2]	D in mm [3]
S0 (V840A/A, .../B, .../E)	31,5	5	32,9	3,5–4,5	
S0 (V840A/C, .../D, .../F)	31,5	5	32,9	3,0–4,0	
S1	40	7	41,6	4,0–6,0	–

[1] Front panel mounting + Cast enclosure | [2] Plastic enclosures + Mounting VE2 and VE21 | [3] Single hole mounting

Base mounting 45 mm standard knock-out

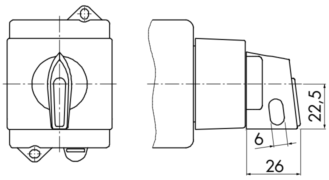
V840B






The padlock device is an integral part of the switch handle and can hold 1 padlock (Size VE2 und VE21)

Lock bar accessible from the front
Available in the colors (handle/background) black/gray, gray/gray, red/gray and red/yellow. U-bolt diameter max. 2 x 4,5–6 mm

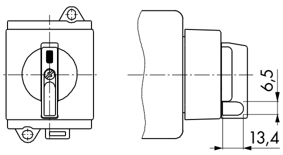


V840H




The padlock device is an integral part of the switch handle and can hold 2 padlocks (Size VE2 und VE21)

Lock bar accessible from the front, flush design
Available in the colors (handle/background) black/gray, gray/gray, red/gray and red/yellow. U-bolt diameter max. 2 x 4 mm



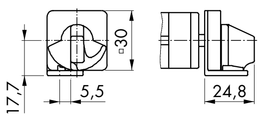
Small sited padlock device

V840K




For 1 padlock Size S00 (U-bolt diameter 3,5–5 mm)

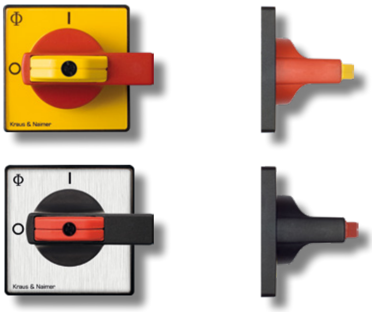
For 2-hole panel mounting and single hole mounting 22 mm (16 mm not possible).
Handle in red or black and face plate availble in yellow or brushed aluminum.



Padlock device

T-handle

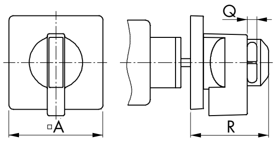
V845



For 4 padlocks (operation of the locking flag form the front)

Handle in the colors black and red available and face plate in the colors yellow and brushed aluminum.
Both positions lockable on request.

Size	A	R	Q
S0	48	51	7,2
S1	64	58	8,1
S2	88	73	9
S3	130	86,5	9



Maximum number of padlocks		
Face plate	**Shackle-∅**	**Nr of padlocks**
48 x 48	7	2
	3	4
64 x 64	7,5	3
	4	4
88 x 88	4–8	2–4
130 x 130	4–8,5	2–4

F-handle

V840D

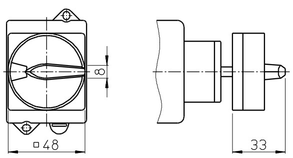
For 2 padlocks Size S0 (48 x 48)
For 3 padlocks Size S2 (88 x 88)

V840G
V840F/F

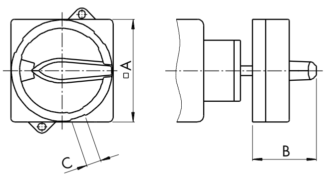
For 3 padlocks Size S1 (64 x 64)
For 4 padlocks Size S1 (64 x 64)

Padlock device with integrated F-handle.
Handles available in the colors black, red and electrogray.
Background available in black, yellow and electrogray.

V840D Size S0 (48 x 48)



V840D Size S2 (88 x 88)
V840G, V840F/F



	A	B	C
V840D	88	49,3	10
V840G	64	40,1	9,2
V840F/F	64	40,1	9,2

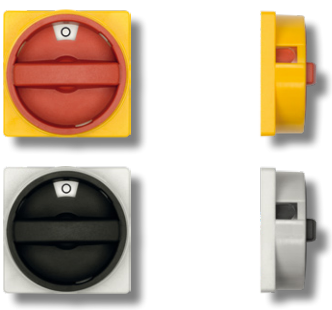
B-handle

V840G/B

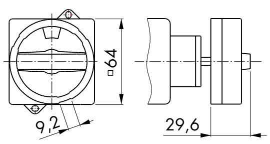
For 3 padlocks Size S1 (64 x 64)

V840F/B

For 4 padlocks Size S1 (64 x 64)



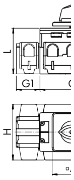
Padlock device with integrated B-handle.
Handles available in the colors black, red and electrogray.
Background available in black, yellow and electrogray.

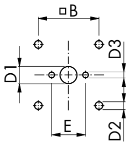


Dimensions for base switch KG – Mounting E, FT1, FT2

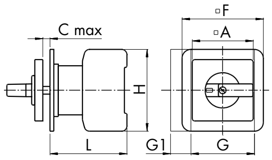
Additional length for camoperated auxiliary contacts on page 116.

Mounting E, ON/OFF switch 3- and 4-pole

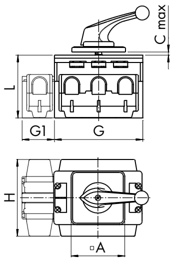




Drill hole pattern face plate



KG10A–KG100C



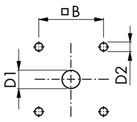
KG125–KG315

KG10A–KG100C	Switch						Drill hole pattern				
	A	C	F	G	G1 [1]	H	L	B	E	D1	D2	D3
KG10A	48	4	48	48		50	48,2	36		11-15	5	
KG10B	64	4	64	48		50	57,2	48		11-15	5	
KG20, KG32	30	4		42	13,5	54	50,8		20	8-11		3,2
KG20A, KG32A	48	4	48	42	13,5	54	53,8	36		10-15	5	
KG20B, KG32B	64	4	64	42	13,5	54	53,8	48		10-15	5	
KG41, KG64	48	4	64	50	16	64	60,5	36		10-15	5	
KG41B, KG64B	64	4	64	50	16	64	60,5	48		10-15	5	
KG80, KG100	64	4	70	70	22	80	70,6	48		10-15	5	
KG80C, KG100C	88	4	88	70	22	80	70,6	68		10-15	6	

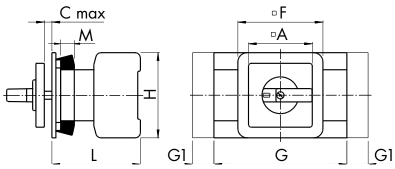
KG125–KG315	Switch						Drill hole pattern		
	A	C	G	G1 [1]	H	L	B	D1	D2
KG125, KG160	88	5,5	112	38	108	96	68	13-17	6
KG210, KG250, KG315	88	5,5	145	52,5	126	103	68	13-17	6

[1] For ON/OFF switch 4-pole

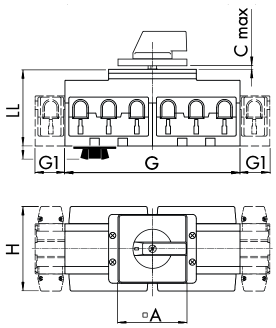
Mounting E, ON/OFF switch 6- and 8-pole and Double-throw switch 3- and 4-pole



Drill hole pattern face plate



KG10A–KG100C



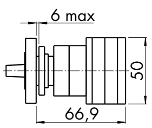
KG125, KG160

KG10A–KG100C	Switch							Drill hole pattern		
	A	C	F	G	G1 [2]	H	L 6-p.	L 8-p.	B	D1	D2
KG10A	48	4	48	48		50	57,7	67,2	36	11-15	5
KG10B	64	4	64	48		50	66,7	76,2	48	11-15	5
KG20A, KG32A	48	4	48	84	13,5	54	61,3		36	10-15	5
KG20B, KG32B	64	4	64	84	13,5	54	61,3		48	10-15	5
KG41B, KG64B	64	4	64	100	16	64	66,5		48	10-15	5
KG80, KG100	64	4	70	140	22	80	81,8		48	10-15	5
KG80C, KG100C	88	4	88	140	22	80	81,8		68	10-15	6

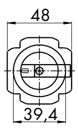
KG125, KG160	Switch						Drill hole pattern		
	A	C	G	G1 [2]	H	L	B	D1	D2
KG125, KG160	88	5,5	224	38	108	98	68	13-17	6

[2] For ON/OFF switch 8-pole and Double-throw switch 4-pole

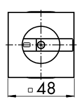
Mounting FT1, FT2, ON/OFF switch 3- and 4-pole



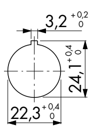
KG10A

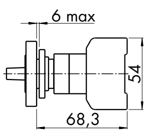


FT1

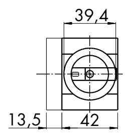


FT2

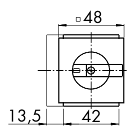




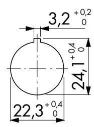
KG20A, KG32A



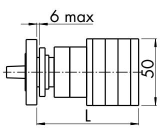
FT1



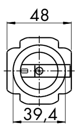
FT2



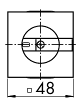
Mounting FT1, FT2, ON/OFF switch 6- and 8-pole and Double-throw switch 3- and 4-pole



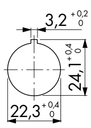
KG10A



FT1



FT2

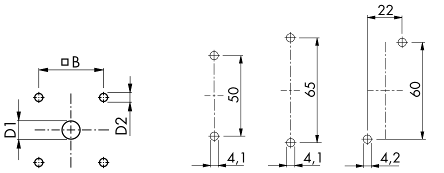


	L
ON/OFF switch 6- and Double-throw switch 3-pole	76,4
ON/OFF switch 8- and Double-throw switch 4-pole	85,9

Dimensions for base switch KG – Mounting VE, VE1, VE2, VE21

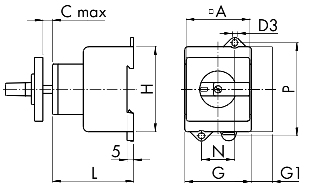
Additional length for camoperated auxiliary contacts on page 117.

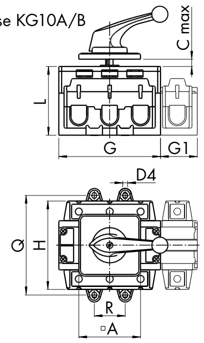
Mounting VE + VE1, ON/OFF switch 3- and 4-pole



Drill hole pattern face plate

Drill hole pattern base KG10A/B





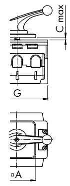
VE KG10A–KG100C + VE1 KG125–KG162

VE KG125–KG315

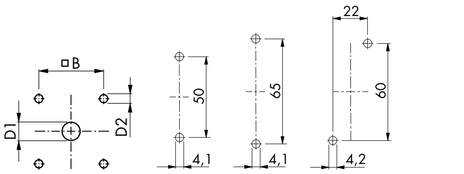
KG10A–KG100C	Switch						Drill hole pattern					
	A	C	G	G1 [1]	H	L	B	D1	D2	N	P	D3
KG10A	48	12	48		50	49,2	36	8-15	5	[2]	[2]	[2]
KG10B	64	29	48		50	56,2	48	10-15	5	[2]	[2]	[2]
KG20A, KG32A	48	12	42	13,5	54	50	36	8-15	5	22	60	4,1
KG20B, KG32B	64	13,5	42	13,5	54	50	48	10-15	5	22	60	4,1
KG41, KG64	48	12	50	16	64	61	36	10-15	5	25	70	4,1
KG41B, KG64B	64	13,5	50	16	64	61	48	10-15	5	25	70	4,1
KG80, KG100	64	13,5	70	22	80	68	48	10-15	5	25	90	5,2
KG80C, KG100C	88	13,5	70	22	80	68	68	10-15	6	25	90	5,2

KG125–KG315	Switch						Drill hole pattern					
	A	C	G	G1 [1]	H	L [3]	B	D1	D2	Q	R	D4
KG125, KG160	88	5,5	112	38	108	96	68	13-17	6	118-122	36	6,4
KG210, KG250, KG315	88	5,5	145	52,5	126	103	68	13-17	6	140-144	44	6,4

[1] For ON/OFF switch 4-pole | [2] KG10A/B separate drawing on the left |
[3] Additional length for mounting VE1 = 7,5

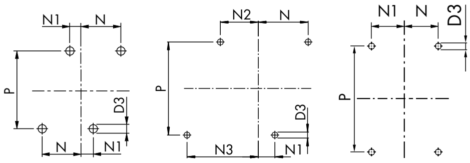


Mounting VE + VE1, ON/OFF switch 6- and 8-pole and Double-throw switch 3- and 4-pole



Drill hole pattern face plate

Drill hole pattern base KG10A/B



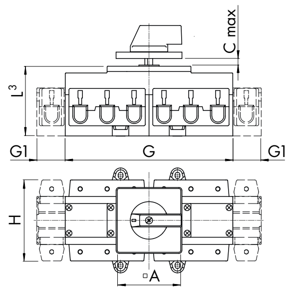
KG20A–KG100C
ON/OFF switch 6-pole
Double-throw switch 3-pole

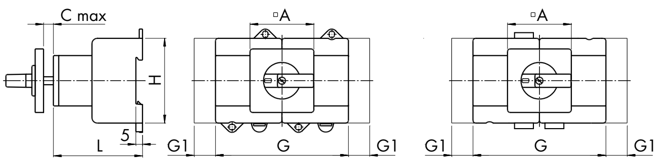
ON/OFF switch 8-pole
Double-throw switch 4-pole

VE KG125–KG162

KG10A–KG160	Switch							Drill hole pattern								
	A	C	G	G1 [4]	H	L [3] 6-p.	L [3] 8-p.	B	D1	D2	D3	N	N1	N2	N3	P
KG10A	48	12	48		50	58,7	68,2	36	8-15	5	[2]	[2]	[2]	[2]	[2]	[2]
KG10B	64	29	48		50	65,7	75,2	48	10-15	5	[2]	[2]	[2]	[2]	[2]	[2]
KG20A, KG32A	48	12	84	13,5	54	57,5		36	8-15	5	4,1	32	10	23,5	45,5	60
KG20B, KG32B	64	13,5	84	13,5	54	57,5		48	10-15	5	4,1	32	10	23,5	45,5	60
KG41B, KG64B	64	13,5	100	16	64	67		48	10-15	5	4,1	37,5	12,5	28,5	53,5	70
KG80, KG100	64	13,5	140	22	80	79,2		48	10-15	5	5,2	47,5	22,5	44,5	69,5	90
KG80C, KG100C	88	13,5	140	22	80	79,2		68	10-15	6	5,2	47,5	22,5	44,5	69,5	90
KG125, KG162	88	16	224	38	108	93		68	13-17	6	6,4	38	38			118-122

[2] KG10A/B separate drawing on the left | [3] Additional length for mounting VE1 = 7,5
[4] For 8-pole and Double-throw switch 4-pole



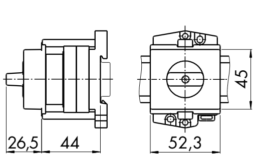


VE KG10A–KG100C

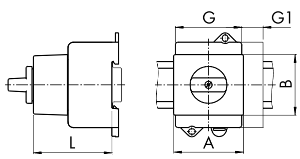
VE1 KG125–KG162

VE KG125–KG162

Mounting VE21 and VE2, ON/OFF switch 3- and 4-pole



KG10A

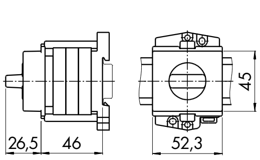


KG20A–KG162

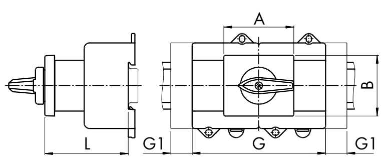
KG20A–KG162	A	B	G	G1 [1]	L
KG20A, KG32A	43,7	45,4	42	13,5	56,5
KG41, KG64	52,4	45,4	50	16	56,5
KG80, KG100	70	45	70	22	65
KG125–KG162	112	45	112	38	98

[1] For ON/OFF switch 4-pole

Mounting VE21 and VE2, ON/OFF switch 6- and 8-pole, Double-throw switch 3- and 4-pole



KG10A



KG20A–KG162

KG20A–KG162	A	B	G	G1 [1]	L
KG20A, KG32A	43,7	45,4	84	13,5	64
KG41B, KG64B	105,4	45,4	100	16	62,5
KG80, KG100	70	45	140	22	76,2
KG125–KG162 [2]	112	45	224	38	101,5

[1] For ON/OFF switch 8-pole and Double-throw switch 4-pole

kW	3
kW	5,5
kW	5,5
kW	5,5

Detail Selection KG switches

The switches described in this chapter comply with regulations of IEC 60947-3, EN 60947-3, VDE 0660 Part 107, IEC 60204, EN 60204 and VDE 0113. They therefore meet all the requirements for disconnectors, switch disconnectors, main switches and repair switches.

Electrical data				KG10 KG10A KG10B	KG20 KG20A KG20B	KG32 KG32A KG32B	KG41 KG41B	KG64 KG64B	KG80 KG80C	KG100 KG100C
Rated values										
Insulation voltage U_i	IEC/VDE [1] Disconnectors conditions [1]		V	690	690	690	690	690	690	690
	USA/Canada		V	300	600	600	600	600	600	600
	CEE/NEMKO		V	400	500	500	500	500	500	500
Rated impulse withstand voltage U_{imp} [1]			kV	4	6	6	6	6	6	6
Thermal current	IEC/VDE	I_u open=I_{th} I_{the} enclosed	A A	20 20	25 25	32 32	40 40	63 63	80 80	100 100
	USA/ Canada	ON/OFF function 1-0-2 function	A A	20 20	25 25	32 32	40 40	60 60	80 [3] 80 [3]	100 [3] 100 [3]
Breaking capacity	3-phase, 3-pole	220 V / 240 V 380 V / 440 V 660 V / 690 V	A A A	120 120 80	180 180 125	220 220 135	300 300 150	350 350 190	560 560 200	700 650 280
	1-phase, 2-pole	220 V / 240 V	A	120						
AC-21A	IEC/VDE	Disconnector-rated operational current I_e	A	20	25	32	40	63	80	100
Rated utilization category										
AC-3	Direct-on-line Starting	3-phase, 3-pole: 220 V / 240 V 380 V / 440 V 500 V 690 V	kW kW kW kW	2,2 3,7 3,7 3,7	4 5,5 5,5 5,5	5,5 7,5 7,5 7,5	7,5 11 15 11	11 18,5 22 15	15 22 30 18,5	18,5 30 37 22
		1-phase, 2-pole: 220 V / 240 V 380 V / 440 V	kW kW	1,1 1,5	- -	- -	- -	- -	- -	- -
AC-23A, AC-23B	Frequent switching of motors or other high inductive loads	3-phase, 3-pole: 220 V / 240 V 380 V / 440 V 500 V 690 V	kW kW kW kW	3 5,5 5,5 5,5	5,5 7,5 7,5 7,5	5,5 11 11 11	7,5 15 18,5 15	11 22 30 18,5	18,5 30 37 22	22 37 45 30
		1-phase, 2-pole: 220 V / 240 V 380 V / 440 V	kW kW	1,5 2,2	- -	- -	- -	- -	- -	- -
Ampere-Rating	Resistive or low inductive loads	USA/ Canada [4]: 600 V ON/OFF 600 V 1-0-2	A A	20 [8] 20 [8]	25 25	30 30	40 40	60 60	80 [3] 80 [3]	100 [3] 100 [3]
DOL-Rating	Standard motor load (similar to AC-3)	USA/ Canada [4] 3-phase, 3-pole: 110 – 120 V 200 – 240 V 440 – 480 V 550 – 600 V	HP HP HP HP	1 2 - -	2 7,5 15 20	3 10 20 25	5 15 25 30	5 15 30 40	10 25 50 50	10 25 50 50
	Power loss per pol at I_u Resistance to vibration [7] Resistance to shock [7]		W	0,9 C C	0,7 A B	1,1 A B	1 A B	2,2 A B	1,7 A B	2,4 A B
Short circuit protection										
Max. fuse size (gL-Characteristic)			A	20	35	35	50	63	80	100
Rated short-time withstand current (1 Sec. current)			A	130	350	430	500	580	1600	1850
Rated conditional short-circuit current Icc (kA)			kA	2 | –	15 | –	15 | 30	7,5 | –	15 | 50	15 | 50	15 | 50
Cut-off current Ic (kA)			kA	1,45 | –	3,5 | –	3,5 | 4,78	3,6 | –	5,1 | 8,08	6,1 | 9,19	7,6 | 11,19
Joule Integral I^2t (kA^2s)			kA^2s	1,95 | –	5,62 | –	5,62 | 8,33	11,05 | –	17,57 | 19,46	31,75 | 36,05	60,99 | 61,10
Max. permissible wire gage (Use Copper wire only)										
Single-core or stranded wire			mm^2 AWG MCM	2,5 12 -	6 10 -	6 10 -	16 6 -	16 6 -	50 1 / 0 -	50 1 / 0 -
Flexible wire without sleeve			mm^2 AWG MCM	2,5 12 -	4 10 -	4 10 -	10 6 -	10 6 -	35 2 -	35 2 -
Flexible wire sleeving in accordance with DIN 46228			mm^2	2,5	4	4	10	10	35	35
Cable lug or track must accept	Connection screw									
	Max. width		mm	-	-	-	-	-	-	-
	Max. width with protective cover		mm	-	-	-	-	-	-	-
Max. ambient temperature [6]										
open at 100 % I_u / I_{th}				50 °C during 24 hours with peaks up to 55 °C						
enclosed at 100 % I_{the}				35 °C during 24 hours with peaks up to 40 °C						

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3 Values for other supply systems on request | [2] Suitalble for no load switching applications (AC-20A) above 690 V. | [3] Valid when connected with wire rated for 75 °C. | [4] International standards and approvals refer to Page 234 | [5] The values after the slash effective for the 6- and multi-pole switch. | [6] Storage temperature: -40 °C bis 85 °C (at temperatures below -5 °C, no impact load is permitted) |
[7] A: min. 4 g, 2-100 Hz, 1,6 mm. B: min. 6 g, 6 ms. C: on request. | [8] Max. 277 V | [9] Connection with cable lug

Detail Selection KG switches

The switches described in this chapter comply with regulations of IEC 60947-3, EN 60947-3, VDE 0660 Part 107, IEC 60204, EN 60204 and VDE 0113. They therefore meet all the requirements for disconnectors, switch disconnectors, main switches and repair switches.

Electrical data				Unit	KG125 KG126 KG127	KG160 KG161 KG162	KG210 KG211 KG212	C200-4	KG250 KG251 KG252	KG315 KG316 KG317	C316
Rated values											
Insulation voltage U_i		IEC/VDE [1] Disconnectors conditions [1]		V	1000 [2]	1000 [2]	1000 [2]	690	1000 [2]	1000 [2]	1000
		USA/Canada		V	600	600	600	-	600	600	600
		CEE/NEMKO		V	-	-	-	-	-	-	-
Rated impulse withstand voltage U_{imp} [1]				kV	8	8	8	6	8	8	8
Thermal current		IEC/VDE	I_u open=I_{th}	A	125	160	200	200	250	315	315
			I_{the} enclosed	A	125	160	200	200	250	315	315/275 [5]
		USA/ Canada	ON/OFF function	A	150 [3]	200 [3]	200 [3]	-	250 [3]	300 [3]	240
			1-0-2 function	A	125 [3]	160 [3]	-	-	-	-	-
Breaking capacity		3-phase, 3-pole	220 V/240 V	A	800	900	1300	1100	1600	1800	2000
			380 V/440 V	A	750	850	1100	1100	1380	1650	2000
			660 V/690 V	A	340	340	400	490	400	400	335
		1-phase, 2-pole	220 V/240 V	A							
AC-21A		IEC/VDE	Disconnector-rated operational current I_e	A	125	160	200	200	250	315	315
Rated utilization category											
AC-3	Direct-on-line Starting	3-phase, 3-pole	220 V/240 V	kW	22	30	37	22	37	45	37
			380 V/440 V	kW	37	45	55	37	55	75	55
			500 V	kW	45	55	75	37	75	90	55
			690 V	kW	30	37	40	30	40	45	37
		1-phase, 2-pole	220 V/240 V	kW	-	-	-	-	-	-	-
			380 V/440 V	kW	-	-	-	-	-	-	-
AC-23A, AC-23B	Frequent switching of motors or other high inductive loads	3-phase, 3-pole	220 V/240 V	kW	30	30	37	37	37	55	75
			380 V/440 V	kW	45	55	75	75	90	110	132
			500 V	kW	55	75	90	90	110	132	132
			690 V	kW	37	37	45	55	45	45	37
		1-phase, 2-pole	220 V/240 V	kW	-	-	-	-	-	-	-
			380 V/440 V	kW	-	-	-	-	-	-	-
Ampere-Rating	Resistive or low inductive loads	USA/ Canada [4]	600 V ON/OFF	A	150 [3]	200 [3]	200 [3]	-	250 [3]	300 [3]	240
			600 V 1-0-2	A	125 [3]	160 [3]	-	-	-	-	-
DOL-Rating	Standard motor load (similar to AC-3)	USA/ Canada [4] 3-phase, 3-pole	110–120 V	HP	15	20	25	-	30	40	30
			200–240 V	HP	30	40	50	-	60	75	75
			440–480 V	HP	60	75	75	-	75	100	75
			550–600 V	HP	60	60	75	-	75	100	60
	Power loss per pol at I_u			W	3,1	5	5	6,7	8	12,7	17
	Resistance to vibration [7]				C	C	C	C	C	C	C
	Resistance to shock [7]				C	C	C	C	C	C	C
Short circuit protection											
Max. fuse size (gL-Characteristic)				A	125	160	200	200	250	315	315
Rated short-time withstand current (1 Sec. current)				A	2500	3000	4000	2000	4600	5800	4200
Rated conditional short-circuit current Icc (kA)				kA	30 / 50	30 / –	30 / –	5 / –	30 / –	15 / –	5 / –
Cut-off current Ic (kA)				kA	12,5 / 13,30	12,9 / –	16 / –	– / –	19 / –	17,6 / –	8,5 / –
Joule Integral I²t (kA²s)				kA²s	100,03 / 94,92	102,7 / –	220 / –	– / –	460 / –	918,12 / –	1080 / –
Max. permissible wire gage (Use Copper wire only)											
ein- bzw. mehrdrähtig				mm²	95	95	185	95 [9]	185	185	185 [9]
				AWG	3/0	3/0	-	-	-	-	-
				MCM	-	-	350	-	350	350	350
Flexible wire without sleeve				mm²	70	70	150	95 [9]	150	150	150 [9]
				AWG	2/0	2/0	-	-	-	-	-
				MCM	-	-	300	-	300	300	300
Flexible wire sleeving in accordance with DIN 46228				mm²	70	70	120	-	120	120	-
Cable lug or track must accept		Connection screw			M10x	M10x	M12x	M8x	M12x	M12x	M12x
				mm	20	20	20	6	20	20	20
		Max. width		mm	20	20	25	-	25	25	-
		Max. width with protective cover		mm	25	25	34	-	34	34	-
Max. ambient temperature [6]											
open at 100 % I_u/I_{th}					50 °C during 24 hours with peaks up to 55 °C						
enclosed at 100 % I_{the}					35 °C during 24 hours with peaks up to 40 °C						

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3 Values for other supply systems on request | [2] Suitalble for no load switching applications (AC-20A) above 690 V. | [3] Valid when connected with wire rated for 75 °C. | [4] International standards and approvals refer to Page 234 | [5] The values after the slash effective for the 6- and multi-pole switch. | [6] Storage temperature: -40 °C bis 85 °C (at temperatures below -5 °C, no impact load is permitted) |
[7] A: min. 4 g, 2-100 Hz, 1,6 mm. B: min. 6 g, 6 ms. C: on request. | [8] Max. 277 V | [9] Connection with cable lug

kW 3
kW 5,5
kW 5,5
kW 5,5

Detail Selection KA switches

The switches described in this chapter comply with regulations of IEC 60947-3, EN 60947-3, VDE 0660 Part 107, IEC 60204, EN 60204 and VDE 0113. They therefore meet all the requirements for disconnectors, switch disconnectors, main switches and repair switches.

Electrical data					KA40B KA40T KA40BT		KA63B KA63T KA63BT	
Rated values								
Insulation voltage U_i	IEC/VDE[1] Disconnectors conditions[1]			V	690		690	
	USA/Canada			V	600		600	
Rated impulse withstand voltage U_{imp}[1]				kV	6		6	
Thermal current	IEC/VDE	I_u open= I_{th} I_{the} enclosed		A A	40 40		63 63	
	USA/ Canada	ON/OFF function 1-0-2 function		A A	42 42		60 60	
Breaking capacity	3-phase, 3-pole	220 – 240 V 380 – 440 V 660 – 690 V		A A A	300 300 150		350 350 190	
AC-21A	3-phase, 3-pole	Disconnector-rated operational current I_e		A	40		63	
Rated utilization category								
AC-3	Direct-on-line Starting	3-phase, 3-pole	220 – 240 V 380 – 440 V 500 V 660 – 690 V	kW kW kW kW	7,5 15 15 15		11 18,5 22 15	
AC-23A, AC-23B	Frequent switching of motors or other high inductive loads	3-phase, 3-pole	220 – 240 V 380 – 440 V 500 V 660 – 690 V	kW kW kW kW	11 20 25 25		11 22 30 25	
Ampere-Rating	Resistive or low inductive loads	USA/ Canada[2]	600 V ON/OFF	A	42		60	
DOL-Rating	Standard motor load (similar to AC-3)	USA/ Canada[2] 3-phase, 3-pole	110 – 120 V 200 – 240 V 440 – 480 V 550 – 600 V	HP HP HP HP HP	5 15 25 30		5 15 30 40	
Power loss per pol at I_u				W	0,9		1,9	
Resistance to vibration					min. 4 g, 2-100 Hz, 1,6 mm			
Resistance to shock					min. 5 g, 6 ms			
Short circuit protection								
Max. fuse size (gL-Characteristic)				A	50		63	
Rated short-time withstand current [1 Sec. current]				A	850		950	
Rated conditional short-circuit current Icc (kA)				kA	10	50	15	50
Cut-off current Ic (kA)				kA	4	6,08	5,5	7,83
Joule Integral I^2t (kA^2s)				kA^2s	9,76	9,35	19,0	18,26
Max. permissible wire gage (Use Copper wire only)								
Single-core or stranded wire				mm^2 AWG MCM	25 4 -		25 4 -	
Flexible wire without sleeve				mm^2 AWG MCM	16 6 -		16 6 -	
Flexible wire sleeving in accordance with DIN 46228				mm^2	16		16	
Cable lug or track must accept	Connection screw Max. width Max. width with protective cover			mm mm mm	- - -		M12x 20 - -	
Max. ambient temperature [3]								
open at 100 % I_u/I_{th}		50 °C during 24 hours with peaks up tACo 55 °C						
enclosed at 100 % I_{the}		35 °C during 24 hours with peaks up to 40 °C						

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3 Values for other supply systems on request | [2] International standards and approvals refer to Page 234 | [3] Storage temperature: -40 °C bis 85 °C (at temperatures below -5 °C, no impact load is permitted)

Auxiliary contacts (KG switches)

Electrical data with				KG10 KG10A KG10B	KG20 KG20A KG20B	KG32 KG32A KG32B	KG41 KG41B	KG64 KG64B	KG80 KG80C	KG100 KG100C	KG125 KG126 KG127	KG160 KG161 KG162	KG210 KG211 KG212	C2004	KG250 KG251 KG252	KG315 KG316 KG317	C316
Rated values																	
Insulation voltage U_i[1] Rated impulse withstand voltage U_{imp}[1]	IEC/VDE USA/Canada		V V kV	690 300 4	500 600 6		690 600 6							690 - 6	690 600 6		690 600 6
Thermal current	IEC/VDE USA/Canada	I_u open=I_{th} I_{the} enclosed	A A	20 20	10 10		16 10							16 -	16 10		16 10
AC-21A	IEC/VDE	Switching v. resistive load m. ger. OB load	A	20	10		16							16	16		16
AC-15	IEC/VDE Operational Current I_e	220 V/240 V 380 V/440 V 500 V	A A A	6 4 -	2,5 1,5 1		6 3 1,5							6 4 1,5	6 3 1,5		6 4 -
Pilot Duty | Heavy	USA/Canada			A300	A600		A600							-	A600		A600
Current Rating	USA/Canada		A	20[8]	10		10							-	10		10
Short circuit protection																	
Max. fuse size (gL-Characteristic)			A	20	10		16							16	16		16
Max. permissible wire gage (Use Copper wire only)																	
Single-core or stranded wire			mm^2 AWG	2,5 12	1,5 14		2,5 12							2,5 -	2,5 12		2,5 14
Flexible wire without sleeve			mm^2 AWG	2,5 12	1,5 16		2,5 14							2,5 -	2,5 14		2,5 14
Flexible wire sleeving in accordance with DIN 46228			mm^2	2,5	1		2,5							2,5	2,5		2,5
Max. ambient temperature [6]																	
open at 100 % I_u/I_{th}				50 °C during 24 hours with peaks up to 55 °C													
enclosed at 100 % I_{the}				35 °C during 24 hours with peaks up to 40 °C													

Auxiliary contacts H-bridge Gold [10] (KG switches)

Electrical data with	KG10 KG10A KG10B	KG20 KG20A KG20B	KG32 KG32A KG32B	KG41 KG41B	KG64 KG64B	KG80 KG80C	KG100 KG100C	KG125 KG126 KG127	KG160 KG161 KG162	KG210 KG211 KG212	C2004	KG250 KG251 KG252	KG315 KG316 KG317	C316
Rated values, short circuit protection, max. permissible wire gage, max. permissible wire gage														
See chapter ***CONTROL SWITCH*** at the Switch types	-	CA4-1		CAD11							CAD4-1	CAD11		CA10

[1] Valid for lines with grounded common neutral termination, overvoltage category III, other values on request. | [6] Storage temperature: -40 °C bis 85 °C (at temperatures below -5 °C, no impact load is permitted) | [8] Max. 277 V | [10] KG20B and KG32B instead of H-bridge contact with multipoint bearing, C316 Goldcontact mit point bearing.

Auxiliary contacts (KA switches)

Electrical data with				M510C* cam-controlled	H010C* laterally attachable
Rated values					
Insulation voltage U_i[1] Rated impulse withstand voltage U_{imp}[1]	IEC/VDE USA/Canada		V V kV	690 600 –	500 600 –
Thermal current	IEC/VDE USA/Canada	I_u open=I_{th} I_{the} enclosed	A A	16 16	16 16
AC-21A	IEC/VDE	Switching v. resistive load m. ger. OB load	A	16	16
AC-15	IEC/VDE Operational Current I_e	110 V–240 V 380 V–440 V 500 V	A A A	6 3 1,5	6 4 –
Pilot Duty | Heavy	USA/Canada			A600	A600
Current Rating	USA/Canada		A	10	10
Short circuit protection					
Max. fuse size (gL-Characteristic)			A	16	16
Max. permissible wire gage (Use Copper wire only)					
Single-core or stranded wire			mm^2 AWG	2,5 12	2,5 12
Flexible wire without sleeve			mm^2 AWG	2,5 14	2,5 14
Flexible wire sleeving in accordance with DIN 46228			mm^2	2,5	2,5
Max. ambient temperature [6]					
open at 100 % I_u/I_{th}		50 °C during 24 hours with peaks up to 55 °C			
enclosed at 100 % I_{the}		35 °C during 24 hours with peaks up to 40 °C			

kW 3
kW 5,5
kW 5,5
kW 5,5

Electrical Data

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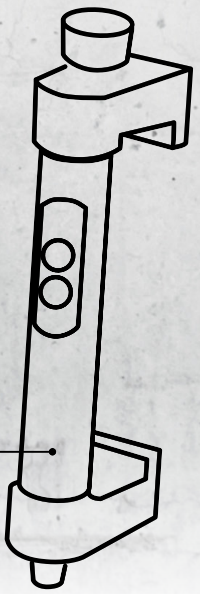

Individual customizations or new concepts possible

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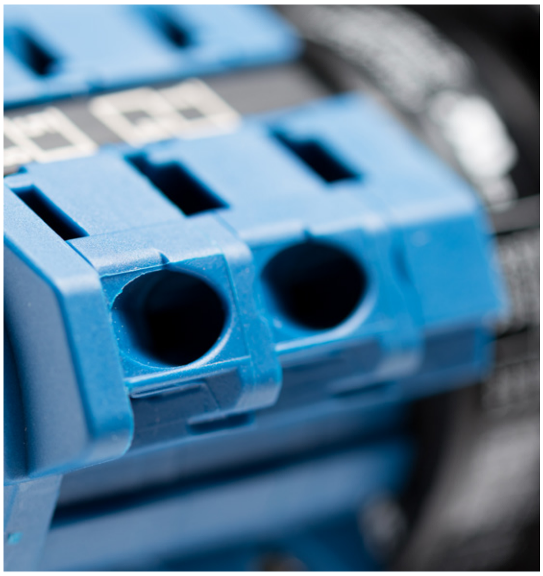
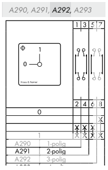
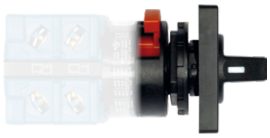
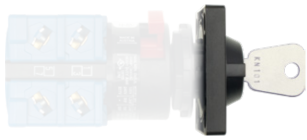


Next >

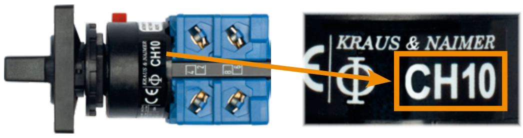
– Ordering example –			
1. Switch type	**2. Switch function**	**3. Mounting**	**4. Optional extras** (as sub item)
Kind of switch and electrical capacity	Switch function	Mounting of switch	
Page 128 ff.	134 ff.	156 ff.	168 ff.
e.g. CH10	**A292**	**FT2**	**CH10.A292*FT2 S0.V750D/3G**
			

– Ordering example if a replacement is required –

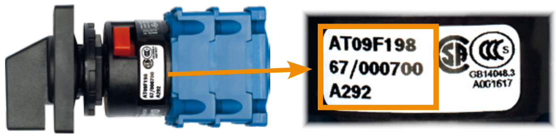
The most important data you should know about ordering, in case of replacement.

Labels until 2019

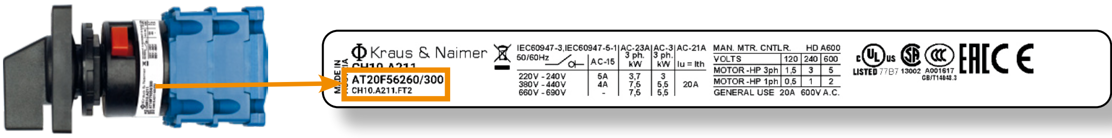
1.



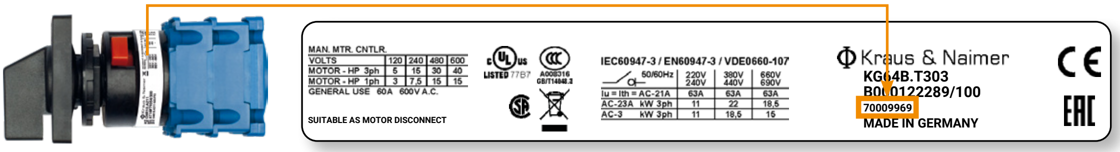
2.



Labels until 2022



Labels from 2020



Should details not be available or incomplete,
send us significant pictures of the switch and the description of the electrical properties according to form on page 243.

Switch type–Overview

Size	Face plate (mm)	Switch type	Switch angle options	Max. Number of stages
S00	30 x 30	CG4, CG4-1, CGD4-1	30°, 45°, 60°, 90°	8
		CA4, CA4-1, CAD4-1	30°, 45°, 60°, 90°	9
		CH6	30°, 45°, 60°, 90°	5
S0	48 x 48	CH10–CH16, CG8, CA10–CA25, CAD11, DH10, DH11	30°, 45°, 60°, 90°	12
S1	64 x 64	CH10B–CH16B, CG8B, CA40–CA63, DH10B, DH11B	30°, 45°, 60°, 90°	12
S2	88 x 88	C80, C125, C200-4, CA40C–CA63C	20°, 30°, 45°, 60°, 90°	12
S3	130 x 130	C315	30°, 45°, 60°, 90°	12

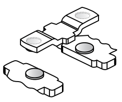
Sizes

				
S00	S0	S1	S2	S3
30 x 30	48 x 48	64 x 64	88 x 88	130 x 130

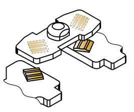
Design features and contact systems

Cam switches are ideal control and load switches. Different contact systems and different contact materials also allow their use in electronic circuits as well as in aggressive environmental conditions. The basic building block of all switches is the stage , which is equipped with 1 or 2 contacts. A contact can be a normally open or normally closed contact.

During switching, they may also overlap, advance, or lag. The contacts are operated via the detent mechanism; latching and touch functions are possible. All switches up to and including CA63 are supplied with the terminals open and finger proof according to EN 50274 and BGV A3. These have captive plus/minus terminal screws and integrated screwdriver guides facilitate wiring.

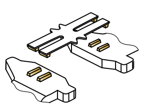


Standard double break with rigid contact bridge and silver point contacts.

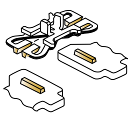


CG4, CG4-1
CA4, CA4-1

High contact reliability due to multiple cross-point contacts, C.4 with 0.5 µ and C.4-1 with 5 µ gold plating.



CH11, CAD11
DH11



CGD4-1
CAD4-1

High contact reliability through H-bridge with "cross-wire" contact system.
Contacts with gold plating for use even at low voltage, low current (compatible with electronic signals) as well as aggressive environmental influences.

Configurable

1. Switch type / Electrical data

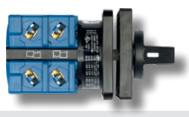
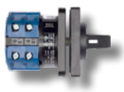
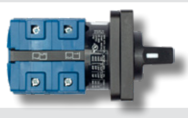
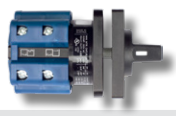
2. Switch functions / Electrical data

3. Mounting

4. Optional extras

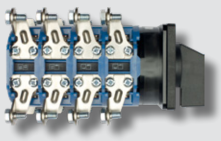
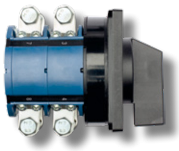
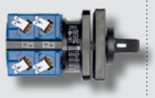
Complete items

Switch type / Electrical data

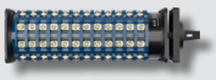
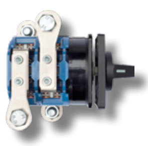
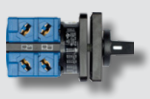
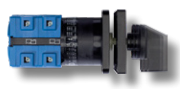
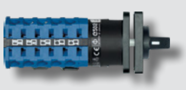
Type	Thermal current (Iu/Ith)	Rating 380 V–440 V AC-23A	AC-3	Face plate size	Standard type	Contact with gold plating	Screwdriver back	side	Enclosed contact chambers
 CG4	10 A	3 kW	2,2 kW	☐ 30 mm S00	●				
CG4-1	10 A	3 kW	2,2 kW	☐ 30 mm S00		●			
CGD4-1	5 A			☐ 30 mm S00		● H-bridge			
CAD4-1	5 A			☐ 30 mm S00		● H-bridge			
CA4	10 A	3 kW	2,2 kW	☐ 30 mm S00					
CA4-1	10 A	3 kW	2,2 kW	☐ 30 mm S00		●			
CH6	20 A	7,5 kW	5,5 kW	☐ 30 mm S00					
 CH10	20 A	7,5 kW	5,5 kW	☐ 48 mm S0	●				
CH10B	20 A	7,5 kW	5,5 kW	☐ 64 mm S1					
CG8	20 A	7,5 kW	5,5 kW	☐ 48 mm S0					
CG8B	20 A	7,5 kW	5,5 kW	☐ 64 mm S1					
 CA10[1]	20 A	7,5 kW	5,5 kW	☐ 48 mm S0					
CA10B[1]	20 A	7,5 kW	5,5 kW	☐ 64 mm S1					
CA11[1]	20 A	7,5 kW	5,5 kW	☐ 48 mm S0					
CA11B[1]	20 A	7,5 kW	5,5 kW	☐ 64 mm S1					
CH11	6 A			☐ 48 mm S0		● H-bridge			
CAD11	6 A			☐ 48 mm S0		● H-bridge			
 DH10	16 A	5,5 kW	3,7 kW	☐ 48 mm S0					●
DH10B	16 A	5,5 kW	3,7 kW	☐ 64 mm S1					●
DH11	6 A			☐ 48 mm S0		● H-bridge			●
DH11B	6 A			☐ 64 mm S1		● H-bridge			●
CH16	25 A	11 kW	7,5 kW	☐ 48 mm S0	●				
 CH16B	25 A	11 kW	7,5 kW	☐ 64 mm S1					
CA20	25 A	11 kW	7,5 kW	☐ 48 mm S0					
CA20B	25 A	11 kW	7,5 kW	☐ 64 mm S1					
 CA25	32 A	15 kW	11 kW	☐ 48 mm S0	●				
CA25B	32 A	15 kW	11 kW	☐ 64 mm S1					

[1] UL: CA10 / CA10B $U_i = 300$ V, CA11 / CA11B $U_i = 600$ V

Switch type / Electrical data

	Type	Thermal current (Iu/Ith)	Rating 380 V–440 V AC-23A	Rating 380 V–440 V AC-3	Face plate size	Standard type	Contact with gold plating	Screwdriver back	Screwdriver side	Enclosed contact chambers
	*CA40* *CA40C*	40 A	18,5 kW	15kW	☐ 64 mm S1 ☐ 88 mm S2	●				
	CA50 *CA50C*	50 A	22 kW	18,5 kW	☐ 64 mm S1 ☐ 88 mm S2	●				
	CA63 *CA63C*	63 A	30 kW	18,5 kW	☐ 64 mm S1 ☐ 88 mm S2	●				
	*C80*	115 A	45 kW	30 kW	☐ 88 mm S2	●				
	C125	150 A	75 kW	37 kW	☐ 88 mm S2	●				
	*C200-4*	200 A	75 kW	37 kW	☐ 88 mm S2	●				
	*C315*	315 A	132 kW	55 kW	☐ 130 mm S3	●				
	*CA4-4* *CH...-4/-6* *DH...-4/-5*	bis 25 A			☐ 30 mm S00 ☐ 48 mm S0 ☐ 64 mm S1	**Switches with quick connectors** on request. For switch size dimensions see page 168.				

Switches for particular case and DC switches

	Type	Thermal current (Iu/Ith)		
	*A...* *AD...*	up to 25 A	Control switch from 13 switch positions and up to 48 contacts	**Page 207 ff.**
	*L....*	up to 2400 A	Load break switches from 350 up to 2400 A	
	*..R*	up to 25 A	Control switch with ring type terminal	
	*DK...*	up to 16 A	Control switch to push and rotate	
	*G20* *G20S*	up to 20 A DC	DC switch up to 1000 V / 20 A with snap on latching and knife contacts. Also suitable for low voltage and low current application.	

Quick selection switch type

Detailed selection switch type

Switch type acccording IEC 60947-3, EN 60947-3, VDE 0660 part 107 (USA/Canada next double page)

Electrical data					CG4 CA4	DH10/B	CH6 CH10/B	CG8/B CA10/B CA11/B	CH16/B	CA20/B	CA25/B
Rated values											
Thermal current I_u/I_{th}				A	10	16	20	20	25	25	32
Insulation voltage U_i [1]				V	440	690	690	690	690	690	690
Rated impulse withstand voltage U_{imp}				kV	4	6	6	6	6	6	6
Rated operational current I_e											
AC-21A	Switching of resistive loads, including moderate overloads			A	10	16	20	20	25	25	32
AC-22A	Switching of combined resistive or low inductive loads, including moderate overloads		220 V–500 V 220 V–440 V 660 V–690 V 500 V	A A A A	10[B] 10 - -	- - - -	- 20 16 20	20[E/D] 20[C] 20 (16[C]) 20[C]	- 25 25 25	 25 25	 32 32
AC-15	Switching of control devices, contactors, valves etc.		110 V 220 V–240 V 380 V–440 V	A A A	2,5[A] 2,5 1,5	5 5 3	5 6 4	6[C] 6 4	8 8 5	- 8 5	- 12 6
Rated utilization category											
AC-3	Direct-on-line starting	3-phase, 3-pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	1,5 2,2 - -	2,2 3,7 3,7 3,7	3 5,5 5,5 5,5	3 5,5 5,5 5,5	4 7,5 7,5 7,5	4 7,5 7,5 7,5	5,5 11 11 11
		1-phase, 2-pole	110 V – 120 V 220 V – 240 V 380 V – 440 V 500 V 660 V–690 V	kW	0,3 0,55 0,75 - -	0,37 1,1 2,2 - -	0,6 2,2 3 3[F/G] 3[F/G]	0,6 2,2 3 3[F/G] 3[F/G]	1,5 3 3,7 4 3,7	1,5 3 3,7 - -	2,2 4 5,5 - -
AC-4	Direct-on-line starting, reversing, plugging and inching	3-phase, 3-pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	0,37 0,55 - -	- - - -	0,55 1,5 1,5 1,5	0,55 1,5 1,5 1,5	1,5 3 3 3	1,5 3 3 3	2,5 5,5 5,5 5,5
		1-phase, 2-pole	110 V – 120 V 220 V – 240 V 380 V – 440 V	kW	0,15 0,25 0,5	- - -	0,3 0,75 1,5	0,3 0,75 1,5	0,45 1,1 2,2	0,45 1,1 2,2	0,75 1,5 3
AC-23A	Frequent switching of motors or other high inductive loads	3-phase, 3-pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	1,8 3 - -	3 5,5 5,5 4	3,7 7,5 7,5 7,5	3,7 7,5 7,5 7,5	5,5 11 11 11	5,5 11 11 11	7,5 15 15 15
		1-phase, 2-pole	110 V – 120 V 220 V – 240 V 380 V – 440 V 500 V 660 V–690 V	kW	0,37 0,75 1,1 - -	0,55 1,5 2,5 - -	0,75 2,5 3,7 4[F/G] 4[F/G]	0,75 2,5 3,7 4[F/G] 4[F/G]	1,5 3 5,5 5,5 5,5	1,5 3 5,5 - -	2,2 4 7,5 - -
Breaking capacity											
			220 V–240 V 380 V–440 V 660 V–690 V	A A A	50 50 -	- - -	150 150 80		200 200 125		280 250 150
Power loss, resistance to vibration, resistance to shock											
Power loss per pol at I_u				W	0,4	-	1,4	0,9 (0,8 CG8/B)	2,3	0,9	0,7
Resistance to vibration					min. 4 g, 2-100 Hz, 1,6 mm (CG-, CH-, DH-Switch on request)						
Resistance to shock					min. 5 g, 6 ms (CG-, CH-switch 30 ms, DH-Switch on request)						
Short circuit protection											
Max. fuse size		gG-Characteristic		A	10	16	25	25	35	35	35
Rated short-time withstand current		(1 sec. current)		A	60 (90[A])	120	200	140	250	280	480
Max. permissible wire gage (use Copper wire only)					2 x	2 x	2 x	2 x	2 x	2 x	2 x
	Single-core or stranded wire			mm²	1,5	2,5	4	2,5	4	4	6
	Flexible wire			mm²	1,5[B]	2,5	2,5	2,5	2,5	4	4
	Flexible wire sleeving in accordance with DIN 46228			mm²	1	1,5	2,5	2,5	2,5	2,5	4
Max. ambient temperature [2, 3]											
	open at 100 % I_u/I_{th}				55 °C during 24 hours with peaks up to 60 °C						
	enclosed at 100 % I_{the}				35 °C during 24 hours with peaks up to 40 °C						

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3 Values for other supply systems On request | [2] For electromagnetic optional extras see additional data in the chapter **Optional Extras**. | [3] Storage temperature: -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible). | [4] 90° only in Size S0
[A] Only applies to CG4 | [B] Only applies to CA4 | [C] Only applies to CG8/B | [D] Only applies to CA11/B | [E] Only applies to CA10/B | [F] Only applies to CH10/B | [G] Only applies to CH6

Switch type acccording IEC 60947-3, EN 60947-3, VDE 0660 part 107 (USA/Canada next double page)

Electrical data					CA40 CA40C	CA50 CA50C	CA63 CA63C	C80	C125	C200-4	C315
Rated values											
Thermal current I_u/I_{th}				A	40	50	63	115	150	200	315
Insulation voltage U_i [1]				V	690	690	690	690	690	690	690
Rated impulse withstand voltage U_{imp}				kV	6	6	6	6	6	6	6
Rated operational current I_e											
AC-21A	Switching of resistive loads, including moderate overloads			A	40	50	63	100	150	200	315
AC-22A	Switching of combined resistive or low inductive loads, including moderate overloads		220 V – 500 V 660 V – 690 V	A A	40 40	50 50	63 63	100 100	150 125	150 125	315 125
AC-15	Switching of control devices, contactors, valves etc.		220 V – 240 V 380 V – 440 V	A A	14 6	16 7	16 7	- -	- -	- -	- -
Rated utilization category											
AC-3	Direct-on-line starting	3-phase, 3-pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	7,5 15 15 15	11 18,5 18,5 18,5	11 18,5 18,5 22	15 30 30 30	22 37 37 30	22 37 37 30	37 55 55 37
		1-phase, 2-pole	110 V – 120 V 220 V – 240 V 380 V – 440 V 500 V 660 V–690 V	kW	2,5 5,5 7,5 - -	3 6 11 - -	3 6 11 - -	3,7 7,5 13 - -	5,5 11 18,5 - -	5,5 11 18,5 - -	11 22 30 - -
AC-4	Direct-on-line starting, reversing, plugging and inching	3-phase, 3-pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	3,7 6 6 6	4 7 7 7,5	5,5 7,5 7,5 9	6 11 11 11	10 15 15 15	10 15 15 15	15 25 25 22
		1-phase, 2-pole	110 V – 120 V 220 V – 240 V 380 V – 440 V	kW	1,1 2,2 3,7	1,2 2,4 4	1,2 2,4 4	1,5 3 5,5	2,2 4 7,5	2,2 4 7,5	4 7,5 11
AC-23A	Frequent switching of motors or other high inductive loads	3-phase, 3-pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	7,5 18,5 18,5 18,5	11 22 22 22	15 30 30 30	30 45 55 45	37 75 90 55	37 75 90 55	75 132 132 37
		1-phase, 2-pole	110 V – 120 V 220 V – 240 V 380 V – 440 V 500 V 660 V–690 V	kW	2,2 4 7,5 - -	2,5 5,5 11 - -	4 10 18,5 - -	5,5 15 22 - -	11 22 37 - -	11 22 37 - -	18,5 37 55 - -
Breaking capacity											
			220 V–240 V 380 V–440 V 660 V–690 V	A A A	290 290 170	330 330 200	440 440 260	860 860 400	1100 1100 490	1100 1100 490	2000 2000 340
Power loss, resistance to vibration, resistance to shock											
Power loss per pol at I_u				W	1	1,8	2,8	5,8	3,8	6,7	17
Resistance to vibration					on request						
Resistance to shock					min. 5g, 30 ms						
Short circuit protection											
Max. fuse size		gG-Characteristic		A	50	63	63	125	200	200	315
Rated short-time withstand current		(1 sec. current)		A	950	950	950	1300	2000	2000	4200
Max. permissible wire gage (use Copper wire only)											
	Single core or standard wire			mm²	16	16	16	35	70	95 [4]	185 [4]
	Flexible wire			mm²	10	10	10	25	50	95 [4]	150 [4]
	Flexible wire with sleeving in accordance with DIN 46228			mm²	10	10	10	25	50		
Max. ambient temperature [2, 3]											
	open at 100 % I_u/I_{th}				55 °C during 24 hours with peaks up to 60 °C						
	enclosed at 100 % I_{the}				35 °C during 24 hours with peaks up to 40 °C						

Auxiliary contacts M510B

Auxiliary contacts M510B			Size S1 (CA40–CA63)	Size S2 + S3 (C80–C315)
Rated values				
Insulation voltage U_i [1]		V	440	690
Thermal current		A	10	16
AC-21A	Switching of resistive loads, including moderate overloads	A	10	16
AC-15	Rated operational current I_e 220 V / 240 V 380 V / 440 V 500 V	A A A	2,5 1,5 -	6 3 1,5
Short circuit protection				
Max. fuse size (gG-Characteristic)		A	10	10
Max. Permissible wire gage (Use Copper wire only)				
Single-core or stranded wire		mm²	1,5	2,5
Flexible wire without sleeve		mm²	1	2,5
Flexible wire sleeving in accordance with DIN 46228		mm²	1,5	2,5

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3 Values for other supply systems On request | [2] For electromagnetic optional extras see additional data in the chapter **Optional Extras**. | [3] Storage temperature: -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible). | [4] Cable lug must accept M8 (C200-4) and M12 (C315/C316) screw.

Detailed selection switch type

Switch type according USA / Canada

Electrical data					CA4 CG4	DH10/B	CH6 CH10/B	CG8/B CA10/B CA11/B	CH16/B	CA20/B	CA25/B
Thermal current I_u/I_{th}											
				A	10	15	20	16[B]/ 20	25	30	30
Insulation voltage U_i [1]											
				V	300	600	600	300[C]/600	600	600	300
Rated operational current I_e[1]											
Pilot duty			Heavy	VAC	A300	A600	A600	A300[C]/A600	A600	A600	A300
Ampere rating	Resistive or low inductive loads			A	10	15	20	10[B]/20	25	30	30
Max. permissible wire gage (use Copper wire only)					2 x	2 x	2 x	2 x	2 x	2 x	2 x
	Single-core or stranded wire			AWG	14	12	10	12	10	10	8
	AWG wiring without sleeve			AWG	16	14	12	14	12	12	10
Rated utilization category											
	Standard motor load DOL-rating (similar to AC-3)	3-phase 3-pole	110 V–120 V 220 V–240 V 440 V–480 V 550 V–600 V	HP	0,75 1 - -	0,75 1,5 3 3	1,5 3 5 5	1,5 3 (1 [A]) 5[D] 5[D]	2 5 10 10	3 7,5 10 10	5 10 - -
		1-phase 2-pole	110 V–120 V 220 V–240 V 277 V 440 V–480 V 550 V–600 V	HP	0,33 0,75 0,75 - -	0,25 0,5 0,5 1 1	0,5 1 2 2 2	0,5 1 2 (1 [A]) 2[D] 2[D]	1 2 3 5 5	1,5 3 3 5 5	2 5 5 - -
	Heavy motor load Reversing-Rating (similar to AC-4)	3-phase 3-pole	110 V – 120 V 220 V – 240 V 440 V – 600 V	HP	- - -	- - -	0,5 1 3	0,5 1 3[D]	1 2 5	1 2 5	2 3 -
		1-phase 2-pole	110 V – 120 V 220 V – 240 V 277 V 440 V–600 V	HP	- - - -	- - - -	0,17 0,5 0,6 1,5	0,17 0,5 0,6 (0,5 [A]) -	0,33 0,75 1 2	0,33 0,75 1 -	1,5 3 3 -

[1] International standards and approvals, refer to page 240
[A] Only applies to CG8 | [B] Only applies to CG8 | [C] Only applies to CG8 und CA10 | [D] Only applies to CA11/B

Switch type according USA / Canada

Electrical data					CA40 CA40C	CA50 CA50C	CA63 CA63C	C80	C125	C200-4	C315
Thermal current I_u/I_{th}											
				A	45	55	65	100	150	-	240
Insulation voltage U_i [1]											
				V	600	600	600	600	600	-	600
Rated operational current I_e[1]											
Pilot duty			Heavy	VAC	A600	A600	A600	-	-	-	A600
Ampere rating	Resistive or low inductive loads			A	45	55	60	100	150	-	240
Max. permissible wire gage (use Copper wire only)											
	Single-core or stranded wire			AWG	6	6	6	2	2/0		MCM350
	AWG wiring without sleeve			AWG	6	6	6	3	1/0		MCM300
Rated utilization category		**UL / Canada**									
	Standard motor load DOL-rating (similar to AC-3)	3-phase 3-pole	110 V–120 V 220 V–240 V 440 V–480 V 550 V–600 V	HP	7,5 15 25 25	7,5 15 25 30	7,5 15 30 30	10 20 30 40	15 25 40 50	- - - -	30 75 75 60
		1-phase 2-pole	110 V–120 V 220 V–240 V 277 V 440 V–480 V 550 V–600 V	HP	3 7,5 7,5 15 15	3 7,5 7,5 15 20	3 7,5 10 15 20	5 10 10 20 25	7,5 15 15 25 30	- - - - -	15 40 40 50 50
	Heavy motor load Reversing-Rating (similar to AC-4)	3-phase 3-pole	110 V – 120 V 220 V – 240 V 440 V – 600 V	HP	- - -	- - -	- - -	7,5 15 25	10 20 30	- - -	15 30 40
		1-phase 2-pole	110 V – 120 V 220 V – 240 V 277 V	HP	- - -	- - -	- - -	3 7,5 7,5	5 10 10	- - -	7,5 15 15

[1] International standards and approvals, refer to page 240

Auxiliary contact M510B

Auxiliary contact M510B			Size S1 (CA40–CA63)	Size S2 + S3 (C80–C315)
Rated values				
Rated impulse withstand voltage U_{imp}		V	600	600
Thermal current		A	10	10
Pilot duty	Heavy		A600	A600
Ampere rating	Resistive or low inductive loads	A	10	10
Max. permissible wire gage (use Copper wire only)				
	Single-core or stranded wire	AWG	14	12
	Flexible wire without sleeve	AWG	16	14

Detailed selection switch type

Switch type according IEC 60947-3, EN 60947-3, VDE 0660 part 107

			Unit	CGD4-1 CAD4-1	CG4-1	CA4-1	CH11	CAD11	DH11/B
Thermal current I_u/I_{th}									
			A	5	10	10	6	6	6
Rated impulse withstand voltage U_{imp}									
			kV	on request	4	4	6	6	6
Insulation voltage U_i [1]									
			V	440	440	440	600	600	600
	Min. voltage		V	1[7]	on request		1[7]	1	1[7]
Rated operational current I_e									
AC-21A	Switching of resistive loads, including moderate overloads	1 V/6 V	A	5/2	-	-	6/3	6/3	6/3
		12 V/24 V	A	1,2/0,7	-	-	2/1	2/1	2/1
		48 V/60 V	A	0,45/-	-	-	0,8/0,7	0,8/-	0,8/-
		110 V/240 V	A	0,25/0,15	-	-	0,4/0,2	0,4/0,2	0,4/0,2
		300 V/440 V	A	0,13/0,1	-	-	0,13/0,1	0,13/0,1	-/0,1
		500 V/600 V	A	-	-	-	0,08/0,05	0,08/0,05	0,09/0,05
Power loss per pol at I_u									
			W	0,4	0,7	0,9	0,4	0,5	on request
Short circuit protection									
Max. fuse size	gG-Characteristic		A	5 [8]	10	10	6[8]	6	6 [8]
Rated short-time withstand current (1 sec. current)			A	30	90	60	35	35	40
DC switching capacity [5]									
DC-21B	Ohmic circuit	IEC 60947-3, EN 60947-3, VDE 0660 part 107, SEV [2], UL/Canada [3] — 1 V/6 V	A	3/1,2	-/-	-/-	4/2,5	4/2,5	4/2,5
		12 V/24 V	A	0,7/0,4	-/10	-/10	1,5/0,8	1,5/0,8	1,5/0,8
		48 V/60 V	A	0,25/0,2	6/2,5	6/2,5	0,3/0,27	0,3/0,27	0,3/0,27
		110 V/220 V	A	0,13/-	0,7/0,3	0,7/0,3	0,2/-	0,2/0,1	0,2/0,1
		240 V/300 V	A	0,8/0,7	-/-	-/-	0,1/0,07	0,08/-	0,08/-
		440 V/500 V	A	0,05/-	0,2/-	0,2/-	0,05/0,03	-/0,03	0,05/0,04
		600 V	A	-	-	-	0,02	0,02	0,02
Max. permissible wire gage (use Copper wire only)				2 x	2 x	2 x	2 x	2 x	2 x
	Single-core or stranded wire		mm²	1,5	1,5	1,5	4	2,5	2,5
	Flexible wire		mm²	1,5	1,5	1,5	2,5	2,5	2,5
	Flexible wire sleeving in accordance with DIN 46228		mm²	1	1	1	2,5	2,5	1,5
Max. ambient temperature [4, 6]									
	open at100 % I_u/I_{th}			55 °C during 24 hours with peaks up to 60 °C					
	enclosed at 100 % I_{the}			35 °C during 24 hours with peaks up to 40 °C					

Switch type according USA / Canada

			Unit	CGD4-1 CAD4-1	CG4-1	CA4-1	CH11	CAD11	DH11/B
Thermal current I_u/I_{th}									
			A	5	10	10	6	6	6
Insulation voltage U_i [9]									
			V	300	300	300	300	300	600
Rated operational current I_e									
AC-21A	Switching of resistive loads, including moderate overloads	1 V/6 V	A	5/2	-	-	6/3	6/3	-
		12 V/24 V	A	1,2/0,7	-	-	2/1	2/1	-
		48 V/110 V	A	0,45/0,25	-	-	0,8/0,4	0,8/0,4	-
		240 V/300 V	A	0,15/0,13	-	-	0,2/0,13	0,2/-	-
DC switching capacity [5]									
DC-21B	Ohmic circuit	1 V/6 V	A	3/1,2	-/-	-/-	4/2,5	4/2,5	4/2,5
		12 V/24 V	A	0,7/0,4	-/10	-/10	1,5/0,8	1,5/0,8	1,5/0,8
		48 V/60 V	A	0,25/0,2	6/2,5	6/2,5	0,3/0,27	0,3/0,27	0,3/0,27
		110 V/220 V	A	0,13/-	0,7/0,3	0,7/0,3	0,2/-	0,2/0,1	0,2/0,1
		240 V/300 V	A	0,8/0,7	-/-	-/-	0,1/0,07	0,08/-	0,08/-
Max. permissible wire gage (use Copper wire only)				2 x	2 x	2 x	2 x	2 x	2 x
	Single-core or stranded wire		AWG	14	14	14	10	12	12
	AWG wiring without sleeve		AWG	16	16	16	12	14	14

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3 Values for other supply systems on request | [2] For electromagnetic optional extras see additional data in the chapter **Optional Extras**. | [5] Values for Switches with spring return on request | [6] Storage Temperatur: -40 °C at 85 °C (at Temperature under -5 °C no impact load permitted). | [7] Lower values on request. | [8] G-Fuse, nimble | [9] International standards and approvals, refer to page 204.

Detailed selection switch type

Selection DC switches

IEC 60947-3, EN 60947-3, VDE 0660 part 107 (Switch function on request)

Series contacts	1	2	3	4	5	6	8		CA4	CA10	CA10S	CA20	CA20S	CA25	CA25S	CA40	CA40S	CA63S
	Admissible voltage in Volt								Rated operational current I_e									
Utilization category DC-21A, DC-21B Switching of resistive loads Response time L/R≤1ms	24	48	72	96	120	144	192	A	10	16	16	21	24	26	32	35	40	63
	48	96	144	192	240	288	384	A	6	14	15	18	24	25	32	32	40	63
	60	120	180	240	300	360	480	A	5	13	15	17	21	24	28	28	40	50
	110	220	330	440	550	660	–	A	4	6	7	6	7	7	9,3	–	–	–
	220	440	660	–	–	–	–	A	0,8	0,9	1	1	1	1	1	–	–	–
Utilization category DC-22A, DC-22B Switching of mixed resistive and inductive loads (e.e. shunt motors)	24	48	72	96	120	144	192	A	8	14	15	18	24	25	32	35	40	63
	48	96	144	192	240	288	384	A	5	13	15	17	24	25	32	32	40	63
	60	120	180	240	300	360	480	A	4	12	15	16	19	24	25	–	20	25
	110	220	330	440	550	660	–	A	1,5	1,9	2	2	2	2,25	3	–	–	–
	220	440	660	–	–	–	–	A	0,3	0,3	0,35	0,3	0,35	0,35	0,35	–	–	–
Utilization category DC-23A, DC-23B Switching of highly inductive loads (i.e. series motors)	24	48	72	96	120	144	192	A	7	13	15	16	23	23	32	35	40	63
	48	96	144	192	240	288	384	A	4	12	15	15	23	21	32	26	40	63
	60	120	180	240	300	360	480	A	3,5	10	13	14	16	18	25	–	–	–
	110	220	330	440	550	660	–	A	1	1,5	1,75	1,7	1,75	2	2,5	–	–	–
	220	440	660	–	–	–	–	A	0,2	0,2	0,3	0,2	0,3	0,2	0,3	–	–	–
Utilization category DC-13 Control of DC electromagnetics Response time L/R≤100ms	24	48	–	–	–	–	–	A	0,8	3	–	4	–	5	–	–	–	–
	48	96	–	–	–	–	–	A	0,5	1,7	–	2,4	–	3	–	–	–	–
	60	120	–	–	–	–	–	A	0,2	1,4	–	1,8	–	2,5	–	–	–	–
	110	220	–	–	–	–	–	A	–	0,7	–	1	–	1,5	–	–	–	–
	220	440	–	–	–	–	–	A	–	0,15	–	0,35	–	0,5	–	–	–	–

Switching angles 60° or 90° (size S0) only possible for switch CA...S.

At higher voltages up to and including *1000 V/20 A* the switch type *G20S* is available. Information at page 207 ff.

Control switch

Following technical data apply to the mentioned switch types intended for use as control switch for isolation with direct opening action according to Annex K of IEC 60947-5-1:2016, EN 60947-5-1:2017 and VDW 0660 Part 200:03:2018 referring to Low-Voltage Switchgear and Controlgear, Control Circuit Devices and Switching Elements.

			CA4 CA4N CA4-1 CA4N-1 CG4 CG4-1	CG6 CG7	CH6 CHR6	CA10 CA11	CA10-1 CA11-1	CG8 CG9	CH10 CHR10	CH10-1 CHR10-1	CA20	CH16 CHR16
Rated Operational Voltage U_e max. [1]		V	400	400	400	400	400	400	400	400	400	400
Rated Impulse Withstand Voltage U_{imp} [1]		kV	4	4	4	4	4	4	4	4	4	4
Rated Thermal Current $I_{th} = I_u$		A	10	20	20	20	20	20	20	16	25	25
Rated Operational Current I_e												
AC-13	24–400 V	A	6	12	10	12	6	12	10	5	16	15
AC-14	24–60 V	A	5	12	10	12	5	12	10	4	16	15
	110 V	A	4	10	8	10	5	10	8	3	12	10
	230 V	A	4	10	8	10	4	10	8	3	12	10
	400 V	A	2,5	7	7	7	2,5	7	7	2	8	8
AC-15	24–60 V	A	3	8	6	8	3	8	6	2	10	8
	110 V	A	2,5	6	5	6	3	6	5	1,5	8	8
	230 V	A	2,5	5	5	5	2,5	5	5	1,5	8	8
	400 V	A	1,5	4	4	4	1,5	4	4	1	5	5
Rated Conditional Short-Circiut Current		kA	1	1	1	1	1	1	1	1	1	1
Short Circiut Protection: gG-Fuse		A	10	20	20	20	20	20	20	16	16	25
Direct Opening Action guaranteed resp. Direct Opening Action Symbol	valid for		all manually opened switch contacts									

Presupposition:

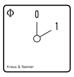
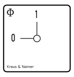
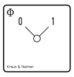
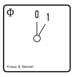
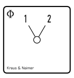
		CA4	CG6	CH6	CA10		CA10-1		CG8		CH10		CH10-1		CA20		CH16	
1) Maximum Number of Stages		6	4	4	6	8	6	8	6	8	6	8	6	8	6	8	6	8
2) Maximum Number of Contacts opened at the same time for switches with latching positions [2]																		
Switching Angle	30°	–	–	–	10	6	10	6	10	6	10	6	10	6	10	6	10	6
	45°	6	8	8	12	10	12	10	12	10	12	10	12	10	12	10	12	10
	60°	10	8	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	90°	12	8	8	12	16	12	16	12	16	12	16	12	16	12	16	12	16

[1] Valid for single-phase circuits, overvoltage category II, polution degree 3. Values for other supply systems or overvoltage categories on request. | [2] The number of contacts indicated do not consider any cam-cut extension.

Detailed selection switch type

Switch functions

Ordering example					
	(Chapter switch types) CH10			A200	E (Chapter mounting)
	(Chapter switch types) CH10			WAA341 F070²	E (Chapter mounting)

	Not every switch function is standarized for all types	Angle °	Poles	Stages	Code	Switch functions + Connection diagram page
	ON/OFF switches					
	0 – 1	60	1	1	A200	143
			2	1	A201	143
			3	2	A202	143
			4	2	A203	143
			5	3	WAA341 F070	143
			6	3	A342	143
			7	4	A343	143
			8	4	A344	143
			9	5	WAA345 F070	143
			10	5	A346	143
			11	6	WAA347 F070	143
			12	6	A348	143
	0 – 1 pre-close N		4	2	WAA653 F070	143
			8	4	WAA654 F070	143
	0 – 1	90	1	1	A290	143
			2	1	A291	143
			3	2	A292	143
			4	2	A324	143
			5	3	WAA325 F056	143
			6	3	A326	143
	0 – 1 pre-close N		4	2	A293	143
	0 – 1 – 0 – 1 rotation 360°	90	3	2	WAA208 F062	143
	0 – 1 symmetric	90	1	1	WAA590 F700	143
			2	1	WAA591 F700	143
			3	2	WAA592 F700	143
			4	2	WAA593 F700	143
	0 – 1	30	1	1	WAA100 F169	143
			2	1	WAA101 F169	143
			3	2	WAA102 F169	143
			4	2	WAA103 F169	143
	0 – 1 with spring return [1]		1	1	A204 F169	143
			2	1	A205 F169	143
			3	2	WAA206 F169	143
			4	2	WAA207 F169	143
	Double-throw switches without "OFF"					
	1 – 2	60	1	1	A220	143
			2	2	A221	143
			3	3	A222	143
			4	4	A223	143
			5	5	A369	143
			6	6	A370	143
			7	7	A371	143
			8	8	A372	143
			9	9	WAA373 F072	143
			10	10	WAA374 F072	143
			11	11	WAA375 F072	144
			12	12	WAA376 F072	143

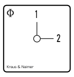
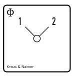
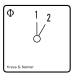
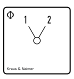
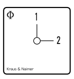
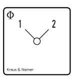
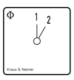
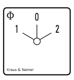
[1] Not possible for Switch type C315. | [2] For switch type C315.WAA... the terminal lugs S3D.D625 are additionally specify. Number corresponds to termination points.

Switch functions

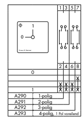
Ordering example

(Chapter switch types) CH10 | A200 | E (Chapter mounting)

(Chapter switch types) CH10 | WAA341 F070[2] | E (Chapter mounting)

Not every switch function is standarized for all types		Angle °	Poles	Stages	Code	Switch functions + Connection diagram page
Double-throw switches without 'OFF'						
	1 – 2 Pre-close N		4	4	WAA673 F072	144
			8	8	WAA972 F072	144
	1 – 2	90	1	1	A530	144
			2	2	WAA531 F254	144
			3	3	WAA532 F254	144
			4	4	WAA533 F254	144
	1 – 2 symmetric	90	1	1	WAA520 F743	144
			2	2	WAA521 F743	144
			3	3	WAA522 F743	144
			4	4	WAA523 F743	144
			6	6	WAA570 F743	144
	1 – 2 [1]	30	1	1	WAA120 F026	144
			2	2	WAA121 F026	144
			3	3	WAA122 F026	144
			4	4	WAA123 F026	144
	1 – 2 with Spring Return [1]		1	1	A295	144
			2	2	A296	144
			3	3	WAA297 F026	144
Double-throw switches without 'OFF' with electrical isolated contacts						
	1 – 2 symmetric 60°	60	1	1	A720	144
			2	2	A721	144
			3	3	A722	144
			4	4	A723	144
	1 – 2 Pre-close N		4	4	WAA973 F072	144
	1 – 2	90	1	1	A585	144
			2	2	A586	144
			3	3	WAA587 F254	144
			4	4	WAA588 F254	144
	1 – 2 symmetric 90°	90	1	1	A575	144
			2	2	A576	144
			3	3	WAA577 F743	144
			4	4	A578	144
	1 – 2 with Spring Return [1]	30	1	1	A795	144
Double-throw switches with 'OFF' (continued on next page)						
	1 – 0 – 2	60	1	1	A210	144
			2	2	A211	144
			3	3	A212	144
			4	4	A213	144
			5	5	A361	145
			6	6	A362	145
			7	7	WAA363 F071	145
			8	8	WAA364 F071	145
	1 – 0 – 2 Pre-close N		4	4	WAA913 F071	145
			8	8	WAA664 F071	145

[1] Not possible for Switch types CA40 up to CA63, C80, C125, C200-4 and C315. | [2] For switch type C315.WAA... the terminal lugs S3D.D625 are additionally specify. Number corresponds to termination points.

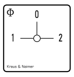
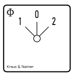
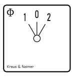
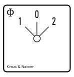
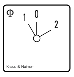
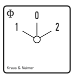
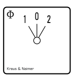
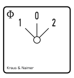
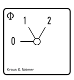
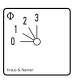
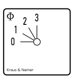


Switch functions

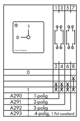
Switch functions

Ordering example

(Chapter switch types) CH10	A200	E (Chapter mounting)
(Chapter switch types) CH10	WAA341 F070[2]	E (Chapter mounting)

	Not every switch function is standarized for all types	Angle °	Poles	Stages	Code	Switch functions + Connection diagram page
Double-throw switches with 'OFF' (continued)						
	HAND – 0 – AUTO	60	1	1	A210 F085	145
			2	2	A211 F085	145
			3	3	A212 F085	145
	1 – 0 – 2	90	1	1	A218	145
			2	2	A219	145
			3	3	WAA299 F057	145
	1 – 0 – 2 Pre-close N		4	4	WAA294 F057	145
	1 – 0 – 2	45	1	1	A510	145
			2	2	WAA511 F216	145
			3	3	WAA512 F216	145
			4	4	WAA513 F216	145
	1 > 0 < 2 With spring return to center	30	1	1	A214	145
			2	2	A215	145
			3	3	A216	145
	1 > 0 < 2 With spring return to center [1]	45	1	1	WAA514 F216	145
			2	2	WAA515 F216	145
	1 > 0 – 2 With spring return	30/60	1	1	A320 F341	145
			2	2	A321 F341	145
			3	3	A322 F341	145
Double-throw switches with 'OFF' with electrical isolated contacts						
	1 – 0 – 2	60	1	1	A710	145
			2	2	A711	145
			3	3	A712	145
			4	4	A713	145
	1 – 0 – 2 Pre-close N		4	4	WAA963 F071	146
	1 > 0 < 2 With spring return to center	30	1	1	A714	146
			2	2	A715	146
	1 – 0 – 2	45	1	1	A565	146
			2	2	WAA566 F216	146
			3	3	WAA567 F216	146
			4	4	WAA568 F216	146
Group switches						
	0 – 1 – 2 2 groups	60	1	1	A310	146
	Switching sequence: 0, A, A+B		2	2	A312	146
			3	3	WAA314 F075	146
	0 – 1 – 2 – 3 3 groups	30	1	2	A311	146
	Switching sequence: 0, A, A+B, A+B+C		2	3	WAA313 F001	146
			3	5	WAA315 F001	146
	0 – 1 – 2 – 3 2 groups series switching Switching sequence: 0, A, B, A+B	30	1	1	WAA330 F001	146
			2	2	WAA331 F001	146
			3	3	WAA332 F001	146
	0–1–2–3 2 Groups series-parallel switching Switching sequence: 0, A+B Serie, A, A+B parallel		2	2	WAA339 F001	146

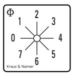
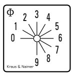
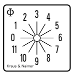
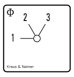
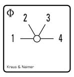
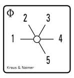
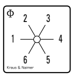
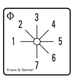
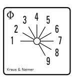
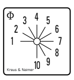
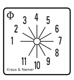
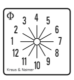
[1] On request. Only for switches with integrated return latching mechanism. | [2] For switch type C315.WAA... the terminal lugs S3D.D625 are additionally specify. Number corresponds to termination points.



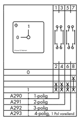
Switch functions

Ordering example

(Chapter switch types) CH10	A200		E (Chapter mounting)
(Chapter switch types) CH10	WAA341	F070[2]	E (Chapter mounting)

	Not every switch function is standarized for all types	Angle °	Poles	Stages	Code	Switch functions + Connection diagram page
Code switches with binary coding						
	0 – 7 rotation 360°	45		2	A540	146
	0 – 7 complement rotation 360°			2	WAA541 F322	147
	0 – 7 + complete rotation 360°			3	WAA542 F322	147
	0 – 9	30		2	A550	147
	0 – 9 complement			2	WAA551 F007	147
	0 – 9 + complement			4	WAA552 F007	147
	0 – 11 rotation 360°	30		2	A543	147
	0 – 11 + complement rotation 360°			4	WAA545 F009	147
Multi-step switches without "OFF"						
	3 stages	60	1	2	A230	147
			2	3	A250	147
			3	5	A270	147
			4	6	A476	147
			5	8	WAA484 F076	147
			6	9	WAA489 F076	147
	4 stages	60	1	2	A231	147
			2	4	A251	147
			3	6	A271	147
			4	8	A477	148
			5	10	WAA485 F077	148
			6	12	WAA490 F077	148
	5 stages	60	1	3	A232	148
			2	5	A252	148
			3	8	WAA272 F078	148
			4	10	WAA478 F078	148
	6 stages	60	1	3	A233	148
			2	6	WAA253 F079	148
			3	9	WAA273 F079	148
	7 stages	45	1	4	WAA234 F110	148
			2	7	WAA254 F110	148
			3	11	WAA274 F110	148
	8 stages	45	1	4	WAA235 F111	148
			2	8	WAA255 F111	148
			3	12	WAA275 F111	148
	9 stages	30	1	5	WAA236 F010	149
	10 stages	30	1	5	WAA237 F011	149
	11 stages	30	1	6	WAA238 F012	149
	12 stages	30	1	6	WAA239 F013	149
	12 stages with rotation 360°		1	6	WAA639 F013	149

[2] For switch type C315.WAA... the terminal lugs S3D.D625 are additionally specify. Number corresponds to termination points.

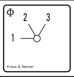
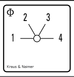
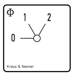
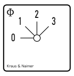
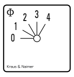
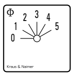
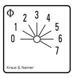
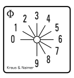
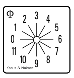


Switch functions

Ordering example

(Chapter switch types) CH10 | A200 | E (Chapter mounting)

(Chapter switch types) CH10 | WAA341 F070² | E (Chapter mounting)

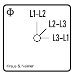
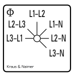
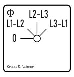
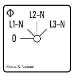
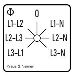
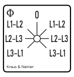
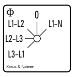
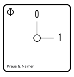
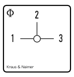
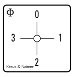
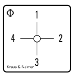
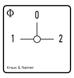
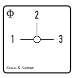
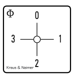
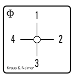
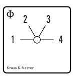
	Not every switch function is standarized for all types	Angle °	Poles	Stages	Code	Switch functions + Connection diagram page
Multi-step switches without "OFF" with electrical isolated contacts						
	3 stages	60	1	2	A730	149
			2	3	A750	149
	4 stages	60	1	2	A731	149
			2	4	A751	149
Multi-step switches with "OFF"						
	2 stages	60	1	1	A240	149
			2	2	A260	149
			3	3	A280	149
			4	4	WAA480 F075	149
			5	5	WAA486 F075	149
			6	6	WAA491 F075	149
	3 stages	45	1	2	A241	149
			2	3	A261	149
			3	5	A281	149
			4	6	WAA481 F109	150
			5	8	WAA487 F109	150
	4 stages	30	1	2	A242	150
			2	4	WAA262 F002	150
			3	6	WAA282 F002	150
			4	8	WAA482 F002	150
	5 stages	30	1	3	A243	150
			2	5	WAA263 F003	150
			3	8	WAA283 F003	150
	6 stages	30	1	3	A244	150
			2	6	WAA264 F004	150
			3	9	WAA284 F004	150
	7 stages	30	1	4	WAA245 F005	150
			2	7	WAA265 F005	150
	8 stages	30	1	4	WAA246 F006	150
	9 stages	30	1	5	WAA247 F007	151
	10 stages	30	1	5	WAA248 F008	151
	11 stages	30	1	6	WAA249 F009	151
	11 stages with rotation 360°		1	6	WAA649 F009	151

² For switch type C315.WAA... the terminal lugs S3D.D625 are additionally specify. Number corresponds to termination points.

Switch functions

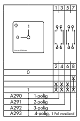
Ordering example

	(Chapter switch types) CH10	A200	E (Chapter mounting)
	(Chapter switch types) CH10	WAA341 F070[2]	E (Chapter mounting)

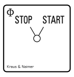
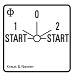
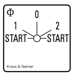
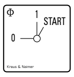
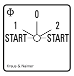
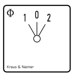
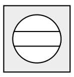
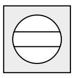
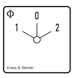
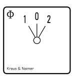
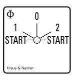
	Not every switch function is standarized for all types	Angle °	Poles	Stages	Code	Switch functions + Connection diagram page
Voltmeter switch without "OFF"						
	L1-L2 – L2-L3 – L3-L1 3 phase	45		2	A023 F793	151
	L3-L1 – L2-L3 – L1-L2 – L1-N – L2-N – L3-N 3 phase to phase and 3 phase to neutral	45		3	A025 F795	151
Voltmeter switch with "OFF"						
	0 – L1-L2 – L2-L3 – L3-L1 3 phase, 3 wire	45		2	A004 F778	151
	0 – L1-N – L2-N – L3-N 3 phase to neutral	45		2	WAA005 F781	151
	L3-L1 – L2-L3 – L1-L2 – 0 – L1-N – L2-N – L3-N 3 phase to phase and 3 phase to neutral	45		3	A007 F785	151
	L3-L1 – L2-L3 – L1-L2 – 0 – L1-L2 – L2-L3 – L3-L1 2 separate 3 phase with center "OFF"	45		4	WAA008 F788	151
	L3-L1 – L2-L3 – L1-L2 – 0 – L1-N 3 phase to phase, 1 phase	45		3	WAA010 F791	151
Ammeter switches						
	0 – 1, 1-pole, 1 current transformer	90	1	1	WAA046 F058	152
	1 – 2 – 3, 1-pole, 3 current transformers without "OFF"	90	1	3	WAA017[1] F719	152
	0 – 1 – 2 – 3, 1-pole, 3 current transformers with "OFF", rotation 360°	90	1	3	A048	152
	1 – 2 – 3 – 4, 1-pole, 4 current transformers	90	1	4	WAA036 F060	152
	1 – 0 – 2, 2-pole, 2 current transformers	90	2	3	WAA037 F057	152
	1 – 2 – 3, 2-pole, 3 current transformers	90	2	5	WAA019 F719	152
	0 – 1 – 2 – 3, 2-pole, 3 current transformers with "OFF"	90	2	5	A038	152
	1 – 2 – 3 – 4, 2-pole, 4 current transformers	90	2	6	WAA039 F060	152
Volt-Ammeter-switches						
	1 – 2 – 3 – 4 3 phase, 1 phase to neutral, 3 current, 2-pole	60	2	7	WAA028 F077	152

[1] Handle specified additionally | [2] For switch type C315.WAA... the terminal lugs S3D.D625 are additionally specify. Number corresponds to termination points.

Switch functions



Switch functions

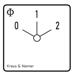
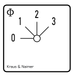
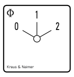
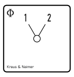
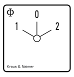
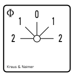
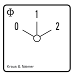
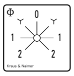
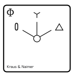
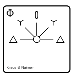
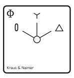
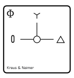
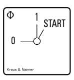
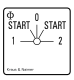
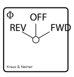
Ordering example						
	(Chapter switch types) CH10				A200	E (Chapter mounting)
	(Chapter switch types) CH10				WAA341 F070²	E (Chapter mounting)
	Not every switch function is standardized for all types	**Angle °**	**Poles**	**Stages**	**Code**	**Switch functions + Connection diagram page**
Control switches						
	STOP > Stop switch (sensing device)	30		1	WAA174 F022	152
	< START Start switch (sensing device)	30		1	A175	152
	STOP > < START, Stop-start switch (sensing device))	30	1	1	A176	153
			2	2	WAA183 F024	153
	0 – 1 < START Stop-start switch with spring return from start to run (sensing device)	90/30		1	A178	153
	START > 1 – 0 – 2 < START Stop-start switch with spring return to run for 2 units (sensing device)	60/30		2	WAA177 F121	153
	START > 1 – 0 – 2 < START Stop-start switch with spring return to run with contactor interlock contactors for 2 units	60/30		2	WAA182 F121	153
Control switches with electrically isolated contacts						
	STOP > < START Stop-start switch (sensing device)	30		1	A789	153
	0 – 1 < Start Stop-start switch with spring return from start to run (sensing device)	90/30		1	A791	153
	START > 1 – 0 – 2 < START Stop-start switch with spring return to run for 2 units (sensing device)	60/30		2	WAA790 F121	153
	1 – 0 – 2 Contactor control with spring return to "OFF"	30		2	WAA179 F025	153
Control and alarm switches						
	Control and alarm switches with slip clutch and without indicator device			5	WAA190 F990	154
	Control and alarm switches without indicator device			2	WAA192 F990	154
Motor reversing switches						
	1 – 0 – 2	60	2	2	A400	154
			3	3	A401	154
	1 – 0 – 2, with spring return to „OFF"	30	3	3	A228[1]	154
	START > 1 – 0 – 2 < START For use with reversing contactors	60/30	3	4	WAA402 F121	154

[1] Only available up to switch type CA25B. | [2] For switch type C315.WAA... the terminal lugs S3D.D625 are additionally specify. Number corresponds to termination points.

Switch functions

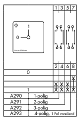
Ordering example

(Chapter switch types) CH10	A200	E (Chapter mounting)
(Chapter switch types) CH10	WAA341 F070[2]	E (Chapter mounting)

	Not every switch function is standarized for all types	Angle °	Poles	Stages	Code	Switch functions + Connection diagram page
Motor control switches						
	0 – 1 – 2 2 speed, 2 winding, 0-A-BY or △	60		3	WAA451 F073	154
	0 – 1 – 2 – 3 3 speed, 2 winding, 0-A△-BY-AYY	45		6	WAA457 F109	154
Motor control switches						
	0 – 1 – 2 2 speed, single winding 0-A-AY	60		4	A440	154
	1 – 2 2 speed, single winding without "OFF"	60		4	A466	154
	1 – 0 – 2 2 speed, single winding with center "OFF" A△-0-AY	60		4	A441	154
	2 – 1 – 0 – 1 – 2 2 speed, single winding reversing	45		6	A442	155
	0 – 1 – 2 For use with reversing contactors	60		5	WAA444 F073	155
	2 – 1 – Y – 0 – Y – 1 – 2 2 speed reversing for 2 way operation with slip clutch for "OFF" load use	45		10	WAA468 F294	155
Star-delta switches						
	0 – Y – △ Standard	60		4	A410	155
	△ – Y – 0 – Y – △ Reversing	45		5	WAA413 F112	155
	0 – Y – △ With auxiliary contact closed in "OFF" position	60		5	WAA416 F080	155
	For use with reversing contactors, 0 – Y – △	90		4	A419	155
Start and run switches						
	0 – 1 < START Split-phase start	90/30		2	A425	155
	1 – START – 0 – START – 2 Split-phase start reversing	30/60		3	WAA426 F120	155
	Split-phase reversing auto cutout of start field winding	60		3	WAA622 F104	155

[2] For switch type C315.WAA... the terminal lugs S3D.D625 are additionally specify. Number corresponds to termination points.

Switch functions



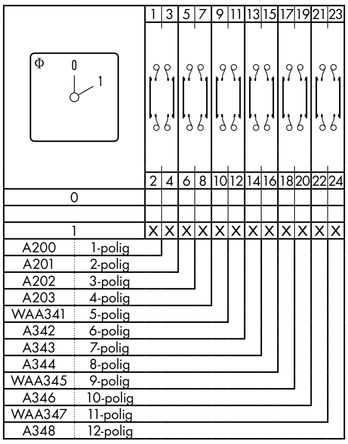
Switch functions

Switch functions (numerically sorted)

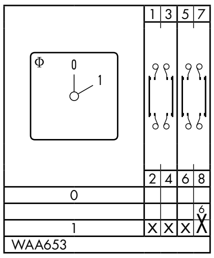
Program	Page	Program	Page	Program	Page	Program	Page	Program	Page	Program	Page
A004 F778	151	WAA207 F169	143	A252	148	A326	143	WAA468 F294	155	A575	144
WAA005 F781	151	WAA208 F062	143	WAA253 F079	148	WAA330 F001	146	A476	147	A576	144
A007 F785	151	A210	144	WAA254 F110	148	WAA331 F001	146	A477	148	WAA577 F743	144
WAA008 F788	151	A210 F085	145	WAA255 F111	148	WAA332 F001	146	WAA478 F078	148	A578	144
WAA010 F791	151	A211	144	A260	149	WAA339 F001	146	WAA480 F075	149	A585	144
WAA017 F719	152	A211 F085	145	A261	149	WAA341 F070	143	WAA481 F109	150	A586	144
WAA019 F719	152	A212	144	WAA262 F002	150	A342	143	WAA482 F002	150	WAA587 F254	144
A023 F793	151	A212 F085	145	WAA263 F003	150	A343	143	WAA484 F076	147	WAA588 F254	144
A025 F795	151	A213	144	WAA264 F004	150	A344	143	WAA485 F077	148	WAA590 F700	143
WAA028 F077	152	A214	145	WAA265 F005	150	WAA345 F070	143	WAA486 F075	149	WAA591 F700	143
WAA036 F060	152	A215	145	A270	147	A346	143	WAA487 F109	150	WAA592 F700	143
WAA037 F057	152	A216	145	A271	147	WAA347 F070	143	WAA489 F076	147	WAA593 F700	143
A038	152	A218	145	WAA272 F078	148	A348	143	WAA490 F077	148	WAA622 F104	153
WAA039 F060	152	A219	145	WAA273 F079	148	A361	145	WAA491 F075	149	WAA639 F013	149
WAA046 F058	152	A220	143	WAA274 F110	148	A362	145	A510	145	WAA649 F009	151
A048	152	A221	143	WAA275 F111	148	WAA363 F071	145	WAA511 F216	145	WAA653 F070	143
WAA100 F169	143	A222	143	A280	149	WAA364 F071	145	WAA512 F216	145	WAA654 F070	143
WAA101 F169	143	A223	143	A281	149	A369	143	WAA513 F216	145	WAA664 F071	145
WAA102 F169	143	A228	154	WAA282 F002	150	A370	143	WAA514 F216	145	WAA673 F072	144
WAA103 F169	143	A230	147	WAA283 F003	150	A371	143	WAA515 F216	145	A710	145
WAA120 F026	144	A231	147	WAA284 F004	150	A372	143	WAA520 F743	144	A711	145
WAA121 F026	144	A232	148	A290	143	WAA373 F072	143	WAA521 F743	144	A712	145
WAA122 F026	144	A233	148	A291	143	WAA374 F072	143	WAA522 F743	144	A713	145
WAA123 F026	144	WAA234 F110	148	A292	143	WAA375 F072	144	WAA523 F743	144	A714	146
WAA174 F022	152	WAA235 F111	148	A293	143	WAA376 F072	143	A530	144	A715	146
A175	152	WAA236 F010	149	WAA294 F057	145	A400	154	WAA531 F254	144	A720	144
A176	153	WAA237 F011	149	A295	144	A401	154	WAA532 F254	144	A721	144
WAA177 F121	153	WAA238 F012	149	A296	144	WAA402 F121	154	WAA533 F254	144	A722	144
A178	153	WAA239 F013	149	WAA297 F026	144	A410	155	A540	146	A723	144
WAA179 F025	153	A240	149	WAA299 F057	145	WAA413 F112	155	WAA541 F322	147	A730	149
WAA182 F121	153	A241	149	A310	146	WAA416 F080	155	WAA542 F322	147	A731	149
WAA183 F024	153	A242	150	A311	146	A419	155	A543	147	A750	149
WAA190 F990	154	A243	150	A312	146	A425	155	WAA545 F009	147	A751	149
WAA192 F990	154	A244	150	WAA313 F001	146	WAA426 F120	155	A550	147	A789	153
A200	143	WAA245 F005	150	WAA314 F075	146	A440	154	WAA551 F007	147	WAA790 F121	153
A201	143	WAA246 F006	150	WAA315 F001	146	A441	154	WAA552 F007	147	A791	153
A202	143	WAA247 F007	151	A320 F341	145	A442	155	A565	146	A795	144
A203	143	WAA248 F008	151	A321 F341	145	WAA444 F073	155	WAA566 F216	146	WAA913 F071	145
A204 F169	143	WAA249 F009	151	A322 F341	145	WAA451 F073	154	WAA567 F216	146	WAA963 F071	146
A205 F169	143	A250	147	A324	143	WAA457 F109	154	WAA568 F216	146	WAA972 F072	144
WAA206 F169	143	A251	147	WAA325 F056	143	A466	154	WAA570 F743	144	WAA973 F072	144

Switch functions

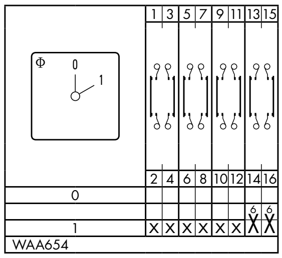
A200, A201, A202, A203, WAA341, A342, A343, A344, WAA345, A346, WAA347, A348



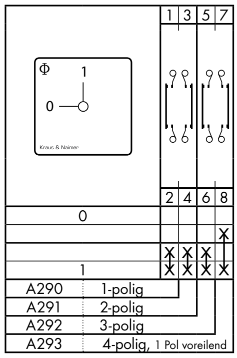
WAA653



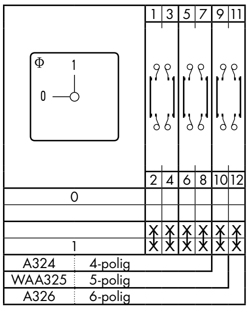
WAA654



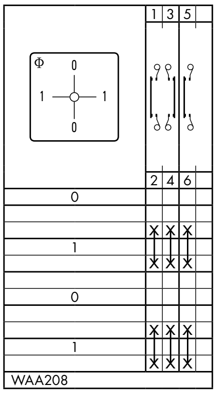
A290, A291, A292, A293



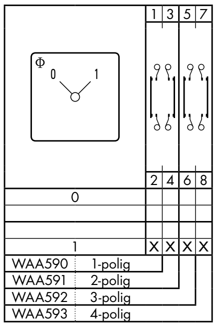
A324, WAA325, A326



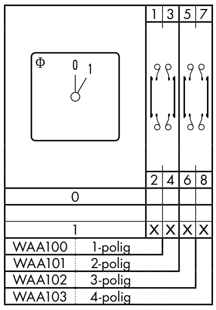
WAA208



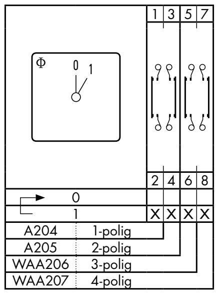
WAA590, WAA591
WAA592, WAA593



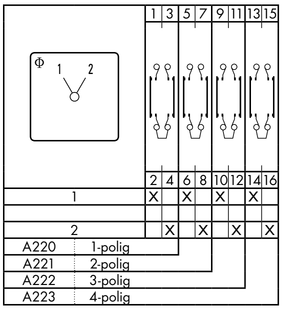
WAA100, WAA101
WAA102, WAA103



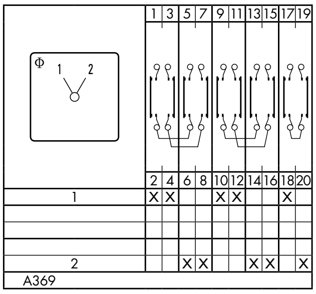
A204 A205 WAA206,
F169 F169 WAA207



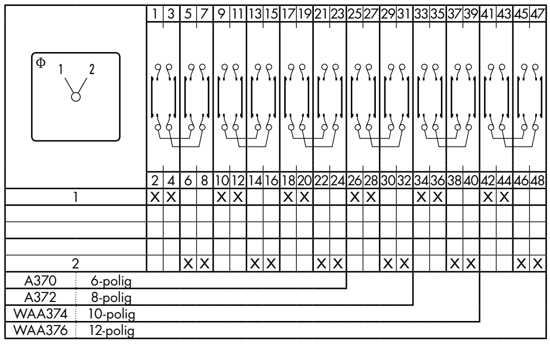
A220, A221, A222, A223



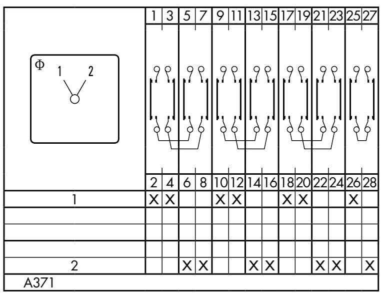
A369



A370, A372, WAA374, WAA376



A371



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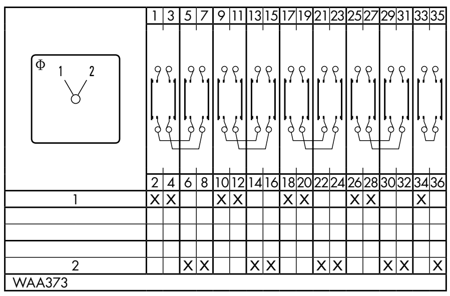

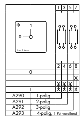

Switch functions

Switch functions

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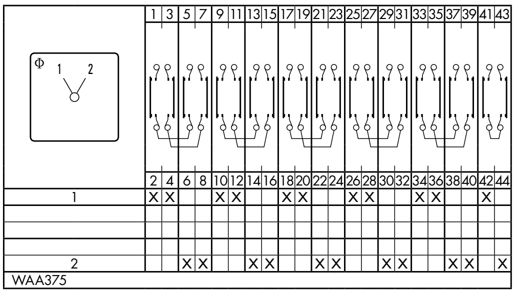

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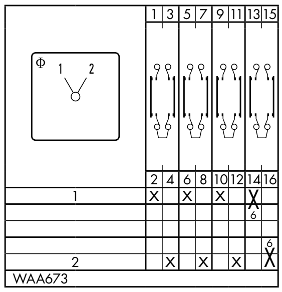

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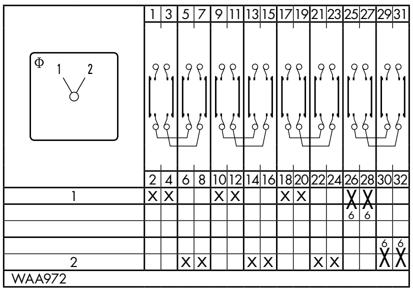

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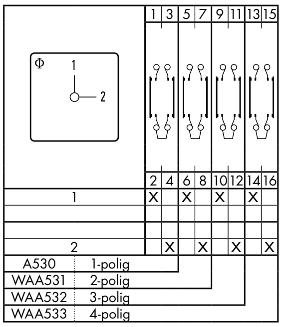

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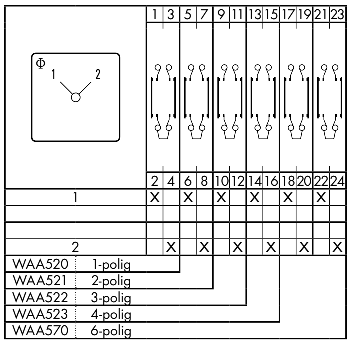

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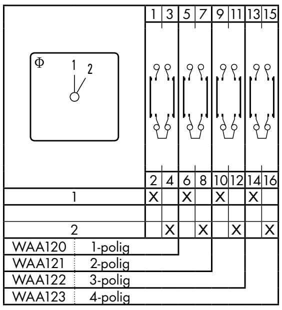

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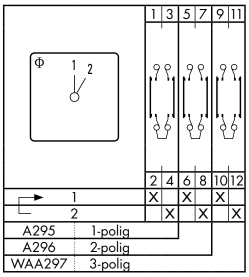

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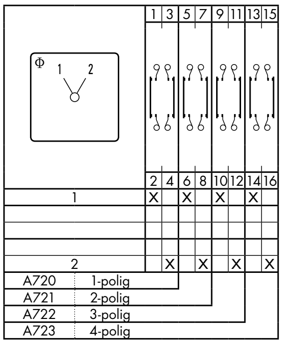

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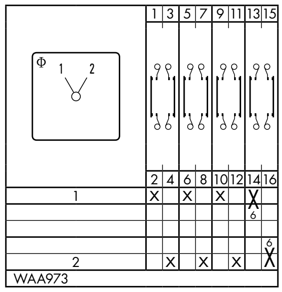

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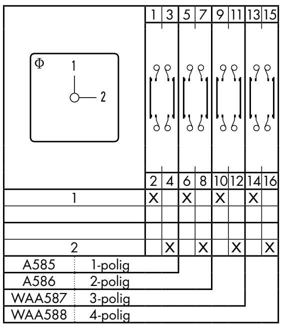
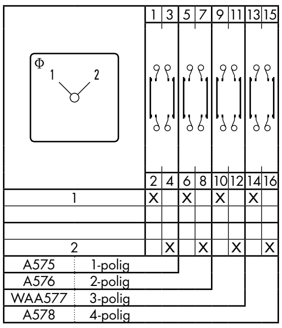


A575, A576, WAA577, A578



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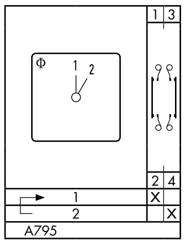

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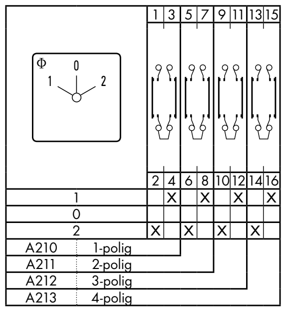
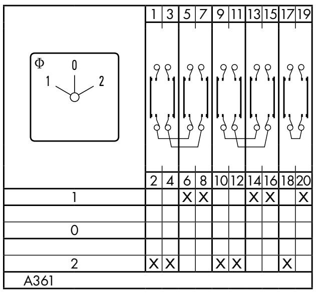
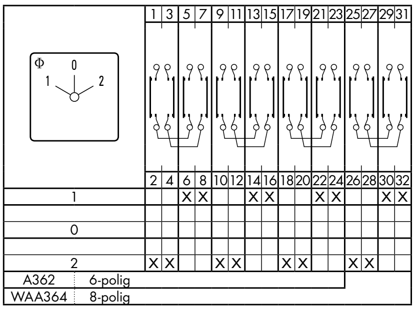


Switch functions

A361



A362, WAA364



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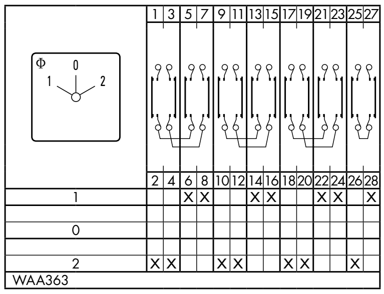

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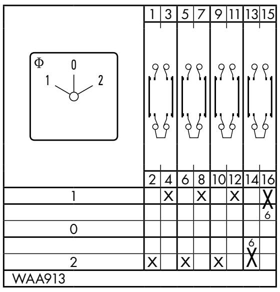

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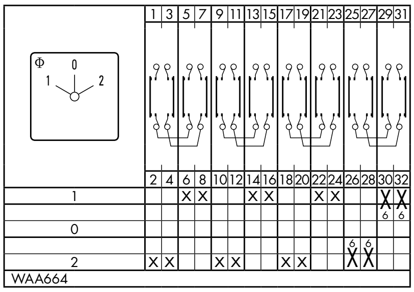

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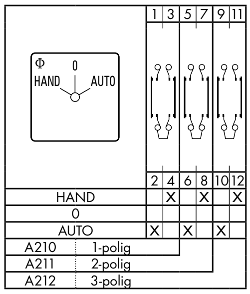

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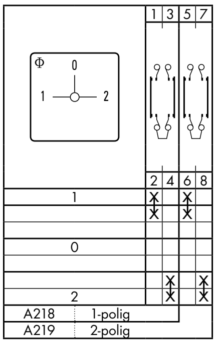

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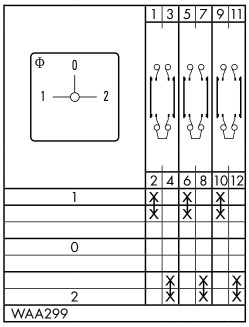

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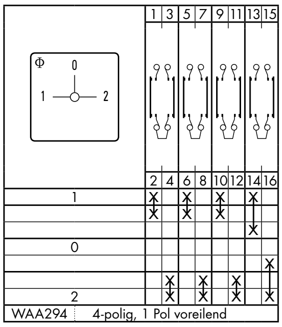
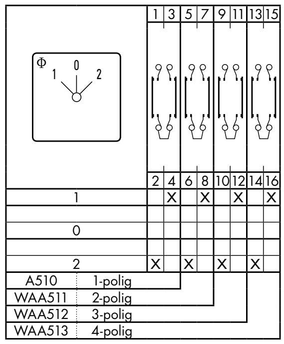


A510, WAA511, WAA512, WAA513



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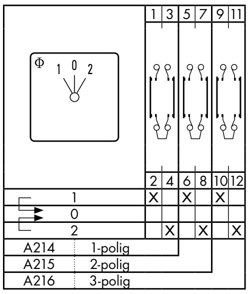
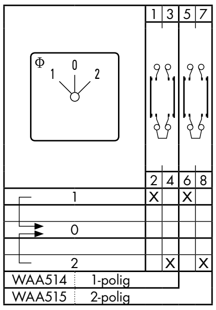


WAA514, WAA515



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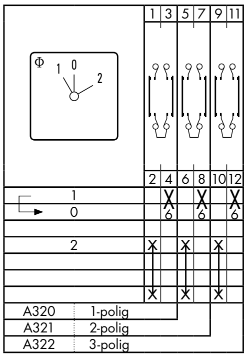
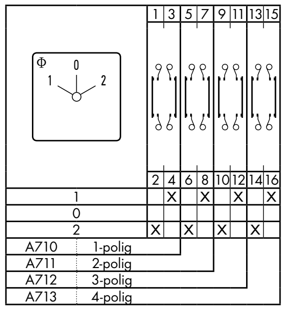
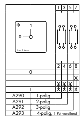


A710, A711, A712, A713

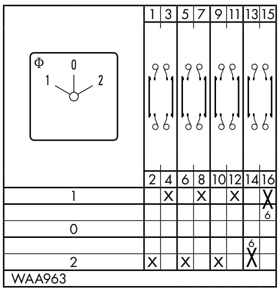




Switch functions

Switch functions

WAA963



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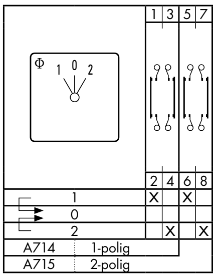
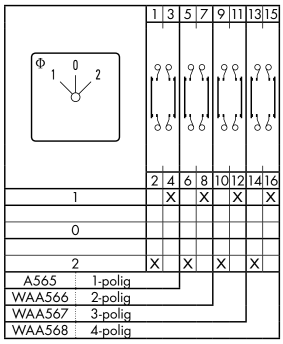


A565, WAA566, WAA567, WAA568



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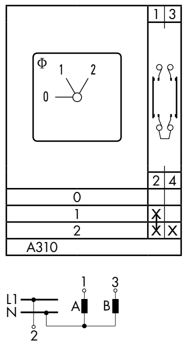

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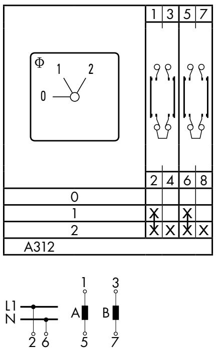

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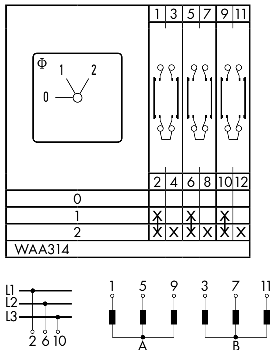

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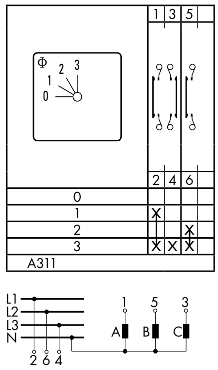

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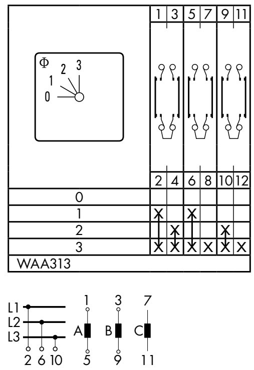

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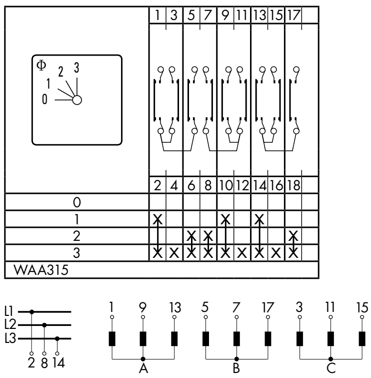
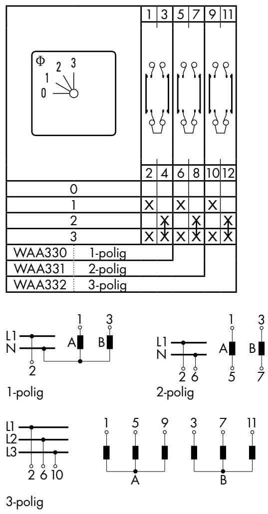


WAA330, WAA331, WAA332



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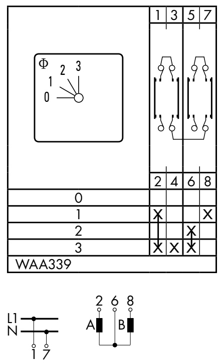

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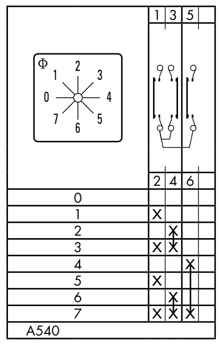
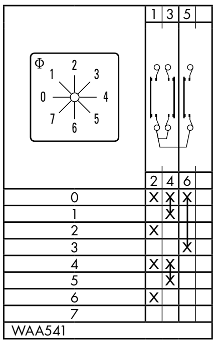


Switch functions

WAA541



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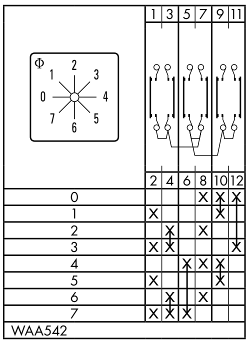

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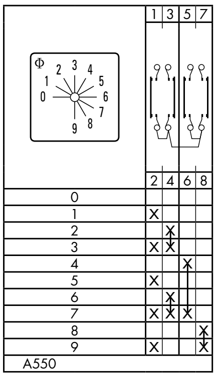

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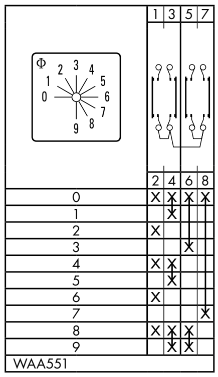

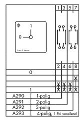

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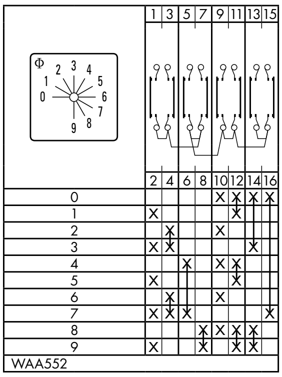

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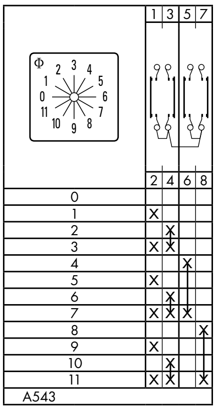

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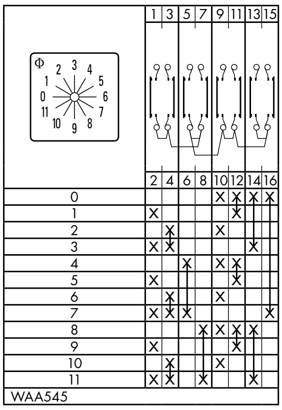

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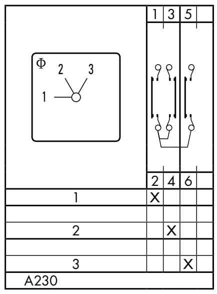

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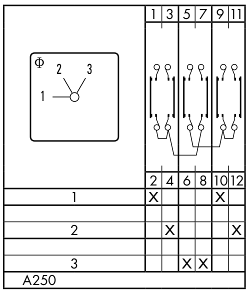

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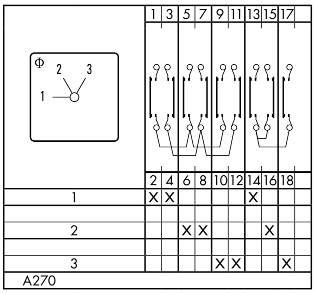
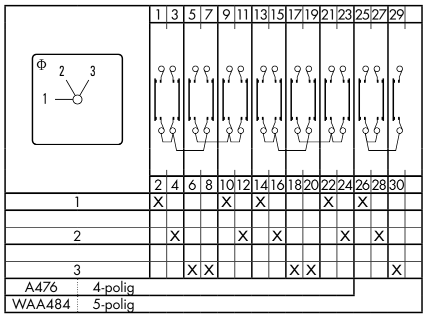


A476, WAA484



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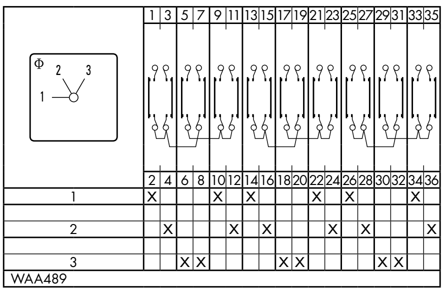
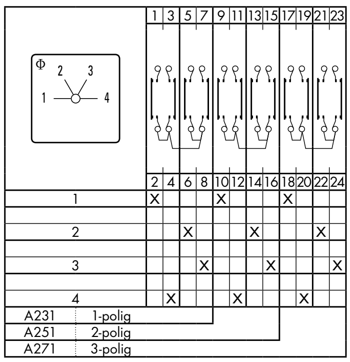
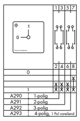


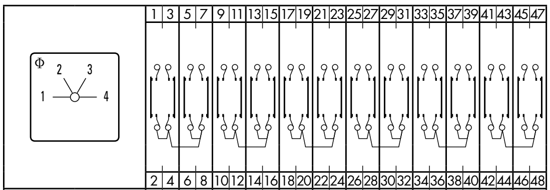
A231, A251, A271





Switch functions

A477, WAA485, WAA490



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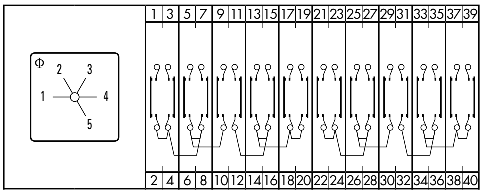
1	X				X				X				X				X				X			
2			X				X				X				X				X				X	
3				X				X				X				X				X				X
4		X				X				X				X				X				X		

A477 4-polig
WAA485 5-polig
WAA490 6-polig

A232, A252, WAA272, WAA478



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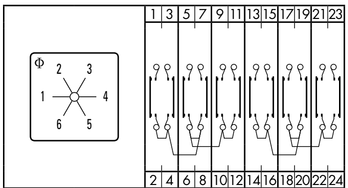
1	X						X				X						X			
2			X						X				X						X	
3					X	X									X	X				
4		X						X				X						X		
5				X						X				X						X

A232 1-polig
A252 2-polig
WAA272 3-polig
WAA478 4-polig

A233, WAA253



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2			X						X			
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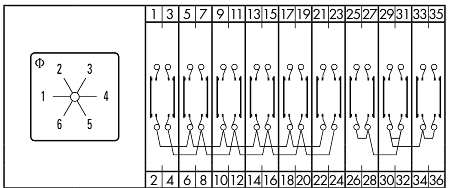
6						X						X

A233 1-polig
WAA253 2-polig

WAA273



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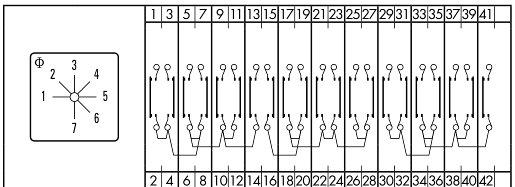
1	X							X					X					
2			X							X					X			
3					X							X					X	
4		X					X							X				
5				X					X							X		
6						X					X							X

WAA273

WAA234, WAA254, WAA274



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1	X								X						X						
2			X								X						X				
3					X								X						X		
4							X	X													X
5		X								X						X					
6				X								X						X			
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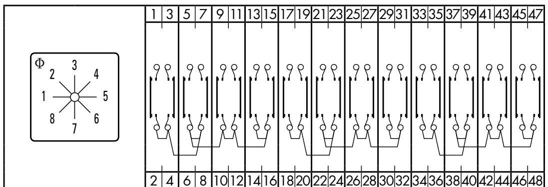
WAA254 2-polig
WAA274 3-polig

WAA235, WAA255, WAA275



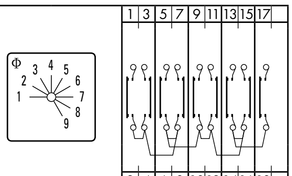
	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	41-42	43-44	45-46	47-48
1	X								X								X							
2			X								X								X					
3					X								X								X			
4							X								X								X	
5		X								X								X						
6				X								X								X				
7						X								X								X		
8								X								X								X

WAA235 1-polig
WAA255 2-polig
WAA275 3-polig

Switch functions

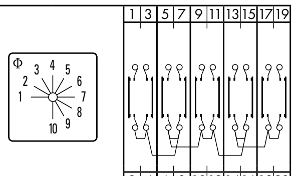
Switch functions

WAA236



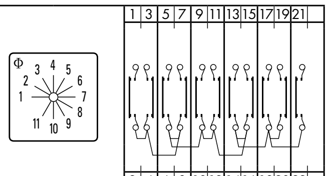
	1	3	5	7	9	11	13	15	17
	2	4	6	8	10	12	14	16	18
1	X								
2			X						
3					X				
4							X		
5									X
6								X	
7		X							
8				X					
9						X			
WAA236									

WAA237



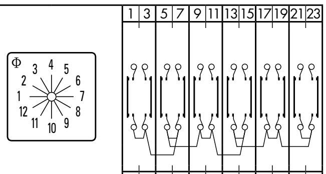
	1	3	5	7	9	11	13	15	17	19
	2	4	6	8	10	12	14	16	18	20
1	X									
2			X							
3					X					
4							X			
5									X	
6										X
7		X								
8				X						
9						X				
10								X		
WAA237										

WAA238



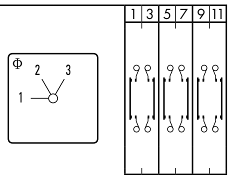
	1	3	5	7	9	11	13	15	17	19	21
	2	4	6	8	10	12	14	16	18	20	22
1	X										
2			X								
3					X						
4							X				
5									X		
6											X
7		X									
8				X							
9						X					
10								X			
11										X	
WAA238											

WAA239, WAA639



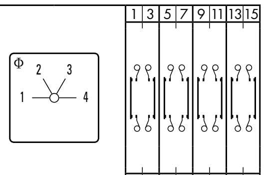
	1	3	5	7	9	11	13	15	17	19	21	23
	2	4	6	8	10	12	14	16	18	20	22	24
1	X											
2			X									
3					X							
4							X					
5									X			
6											X	
7		X										
8				X								
9						X						
10								X				
11										X		
12												X
WAA239												
WAA639 Rundumschaltung												

A730, A750



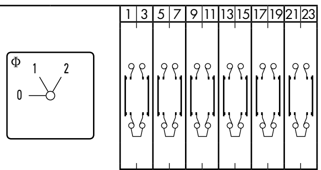
	1	3	5	7	9	11
	2	4	6	8	10	12
1	X				X	
2		X				X
3			X	X		
A730 1-polig						
A750 2-polig						

A731, A751



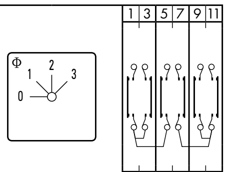
	1	3	5	7	9	11	13	15
	2	4	6	8	10	12	14	16
1	X				X			
2			X				X	
3				X				X
4		X				X		
A731 1-polig								
A751 2-polig								

A240, A260, A280, WAA480, WAA486, WAA491



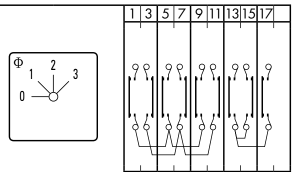
	1	3	5	7	9	11	13	15	17	19	21	23
	2	4	6	8	10	12	14	16	18	20	22	24
0												
1	X		X		X		X		X		X	
2		X		X		X		X		X		X
A240 1-polig												
A260 2-polig												
A280 3-polig												
WAA480 4-polig												
WAA486 5-polig												
WAA491 6-polig												

A241, A261



	1	3	5	7	9	11
	2	4	6	8	10	12
0						
1	X				X	
2			X	X		
3		X				X
A241 1-polig						
A261 2-polig						

A281

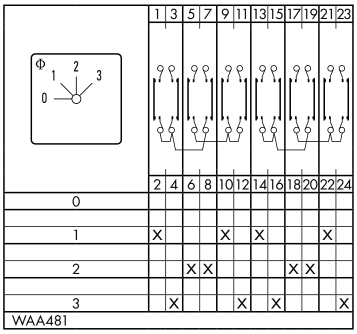


	1	3	5	7	9	11	13	15	17
	2	4	6	8	10	12	14	16	18
0									
1	X	X					X		
2			X	X					X
3					X	X		X	
A281									

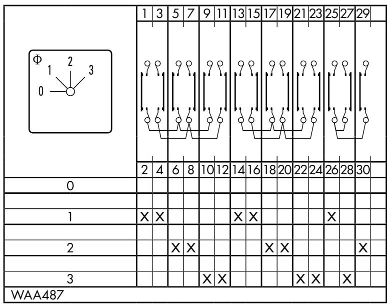
Switch functions

Switch functions

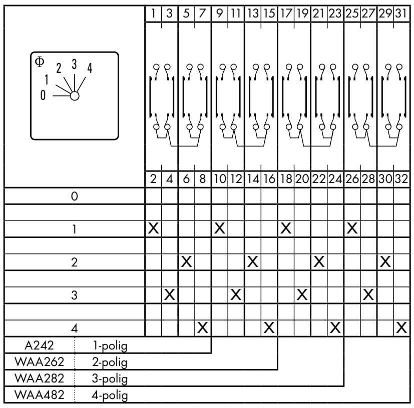
WAA481



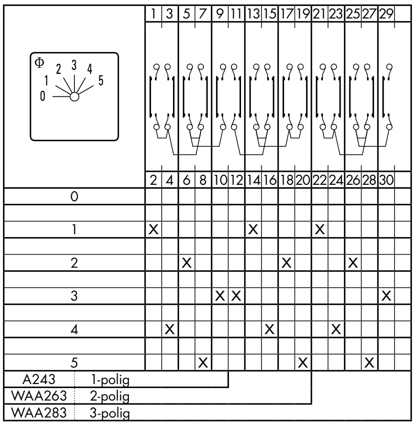
WAA487



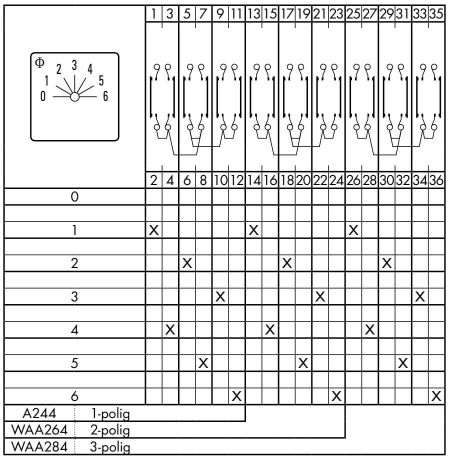
A242, WAA262, WAA282, WAA482



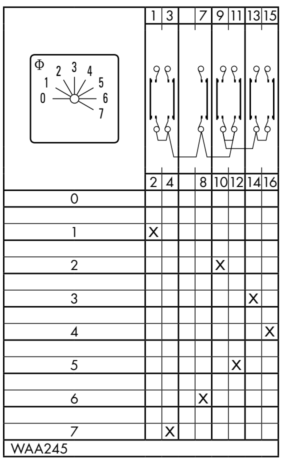
A243, WAA263, WAA283



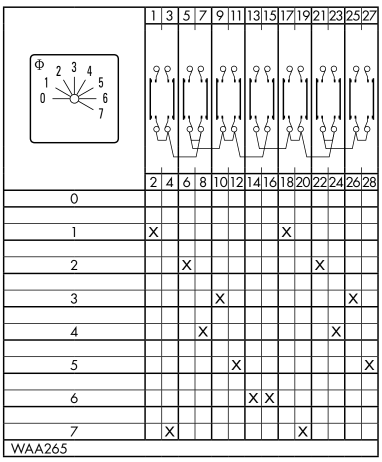
A244, WAA264, WAA284



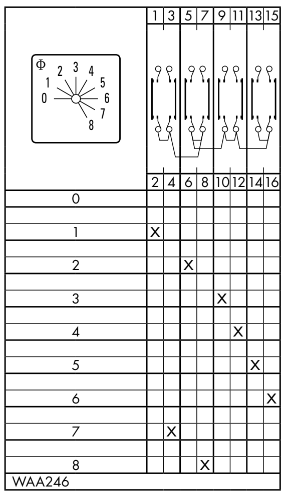
WAA245



WAA265

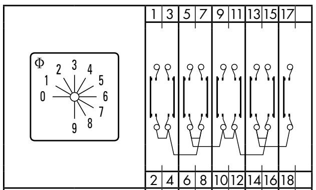


WAA246



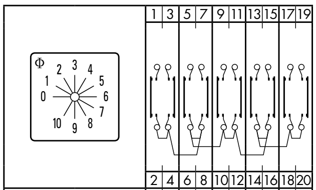
Switch functions

WAA247



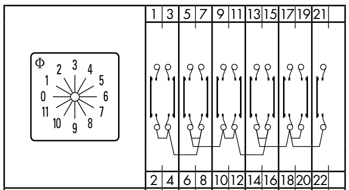
	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18
0									
1	X								
2			X						
3					X				
4							X		
5								X	
6									X
7		X							
8				X					
9						X			
WAA247									

WAA248



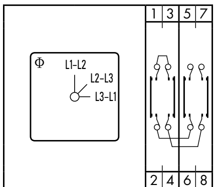
	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20
0										
1	X									
2			X							
3					X					
4							X			
5									X	
6										X
7		X								
8				X						
9						X				
10								X		
WAA248										

WAA249, WAA649

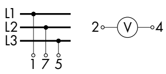


	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22
0											
1	X										
2			X								
3					X						
4							X				
5									X		
6											X
7		X									
8				X							
9						X					
10								X			
11										X	
WAA249											
WAA649 Rundumschaltung											

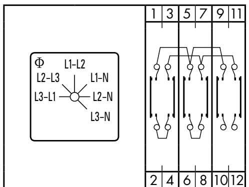
A023
F793



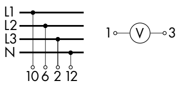
	1-2	3-4	5-6	7-8
L1-L2	X			X
L2-L3			X	X
L3-L1		X	X	
A023				



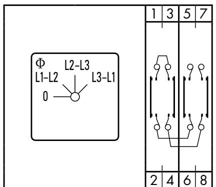
A025
F795



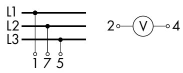
	1-2	3-4	5-6	7-8	9-10	11-12
L3-L1		X			X	
L2-L3		X	X			
L1-L2				X	X	
L1-N					X	X
L2-N			X			
L3-N	X					X
A025						



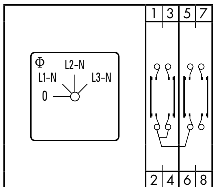
A004
F778



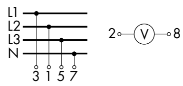
	1-2	3-4	5-6	7-8
0				
L1-L2	X			X
L2-L3			X	X
L3-L1		X	X	
A004				



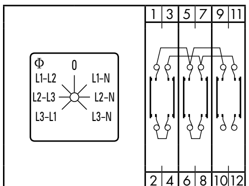
WAA005



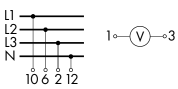
	1-2	3-4	5-6	7-8
0				
L1-N		X		X
L2-N	X			
L3-N			X	X
WAA005				



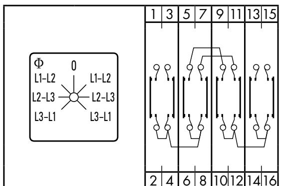
A007
F785



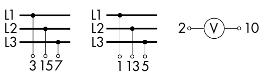
	1-2	3-4	5-6	7-8	9-10	11-12
L3-L1		X			X	
L2-L3		X	X			
L1-L2				X	X	
0						
L1-N					X	X
L2-N			X			
L3-N	X					X
A007						



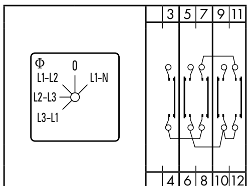
WAA008



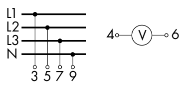
	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16
L3-L1		X				X		
L2-L3				X				X
L1-L2		X						X
0								
L1-L2	X						X	
L2-L3			X				X	
L3-L1	X				X			
WAA008								



WAA010

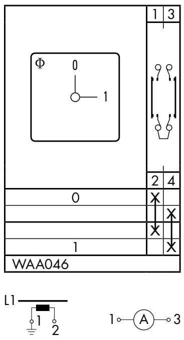


		3-4	5-6	7-8	9-10	11-12
L3-L1		X				X
L2-L3			X	X		
L1-L2		X	X			
0						
L1-N		X			X	
WAA010						

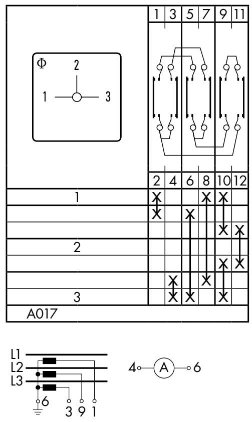


Switch functions

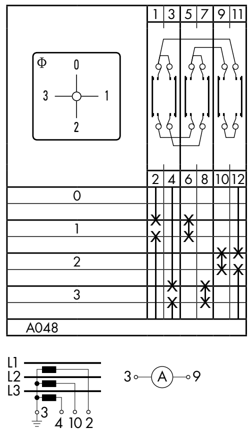
WAA046



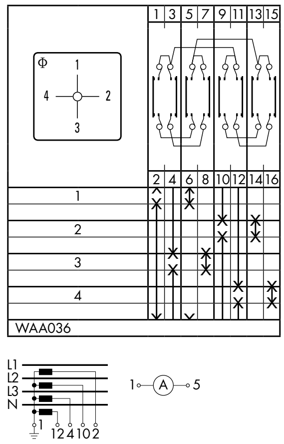
WAA017
F719



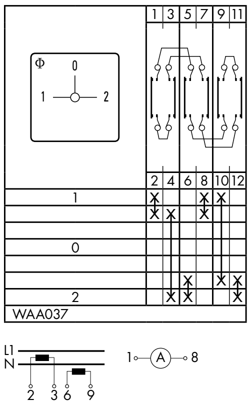
A048



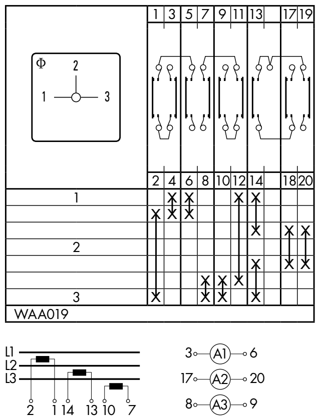
WAA036



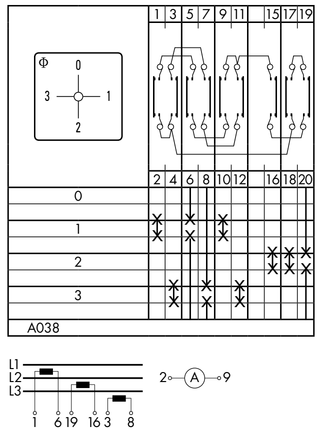
WAA037



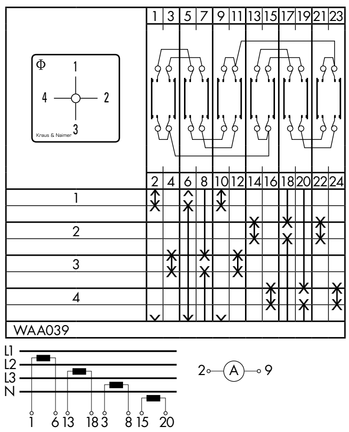
WAA019



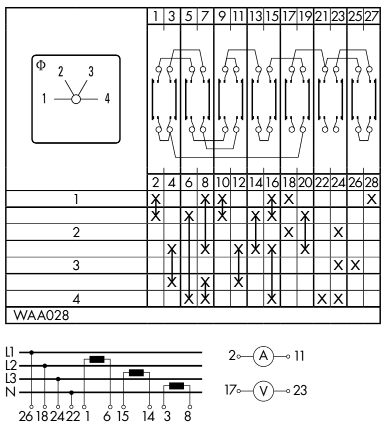
A038



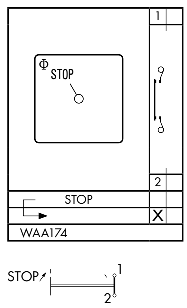
WAA039



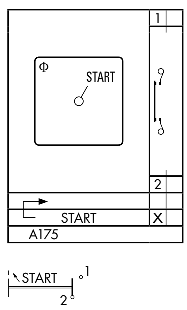
WAA028

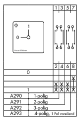


WAA174



A175

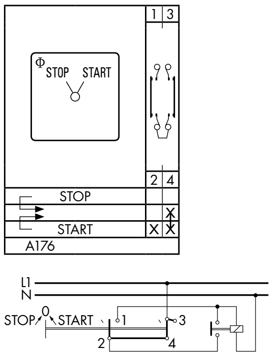




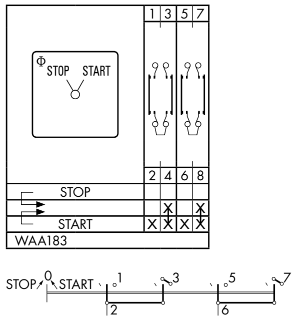
Switch functions

Switch functions

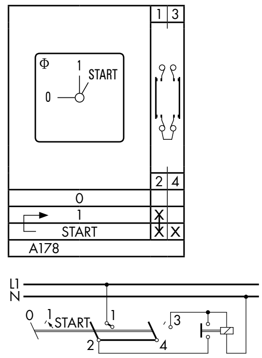
A176



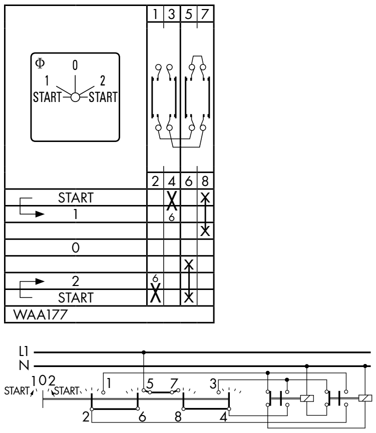
WAA183



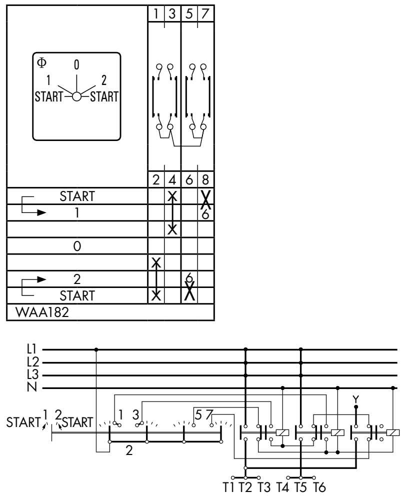
A178



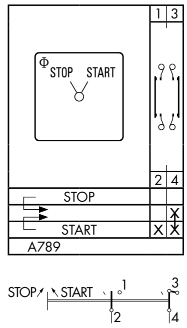
WAA177



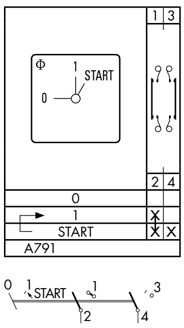
WAA182



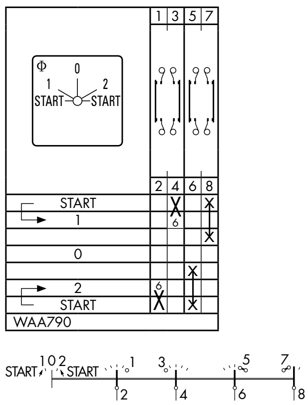
A789



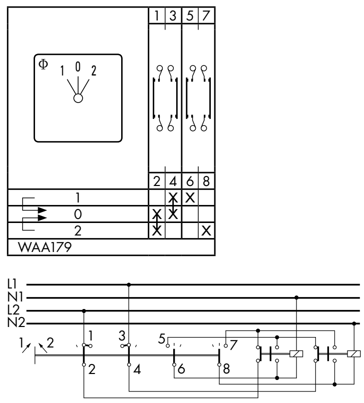
A791

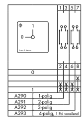


WAA790



WAA179

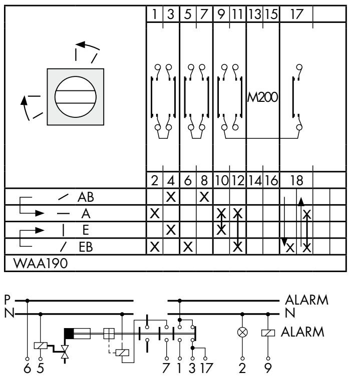




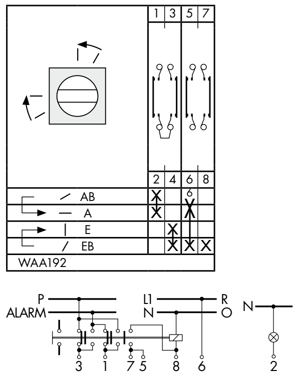
Switch functions

Switch functions

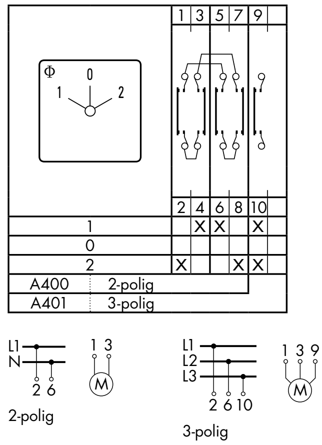
WAA190



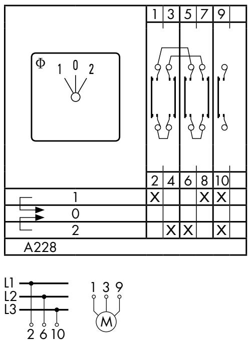
WAA192



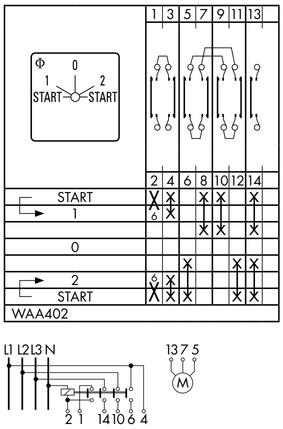
A400, A401



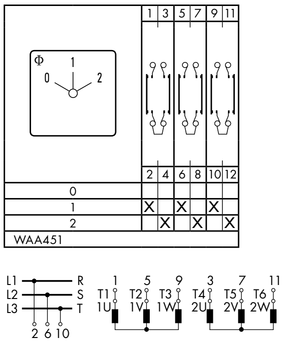
A228



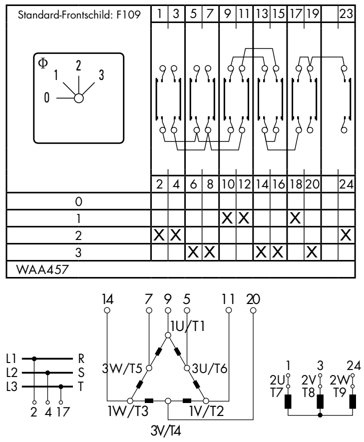
WAA402



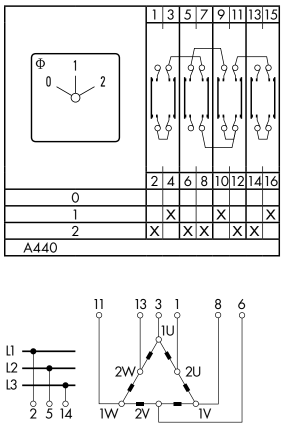
WAA451



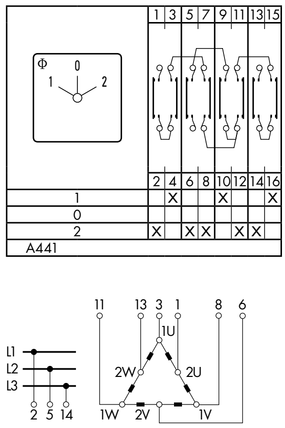
WAA457



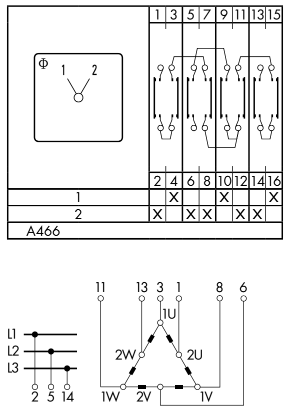
A440

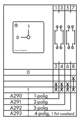


A441



A466

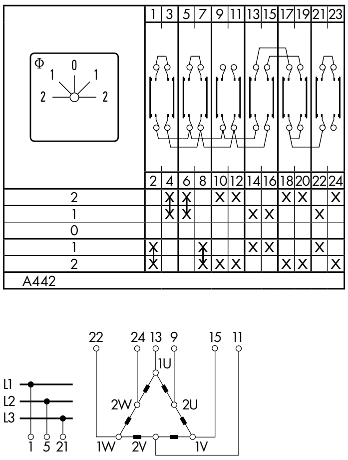




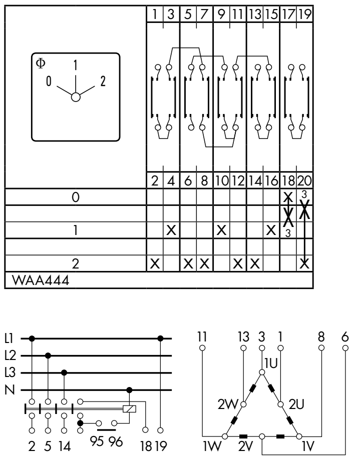
Switch functions

Switch functions

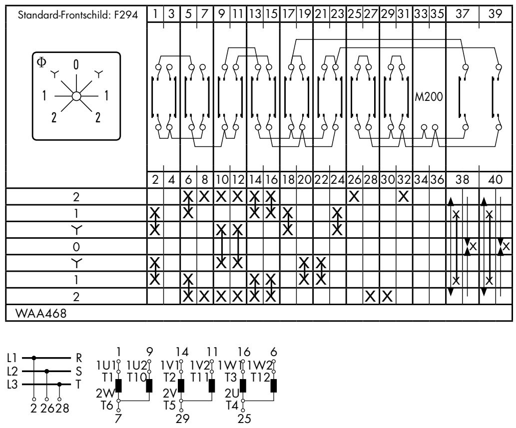
A442



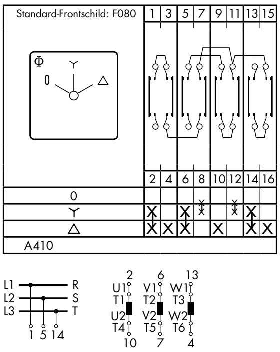
WAA444



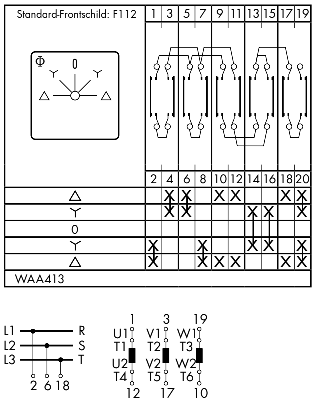
WAA468



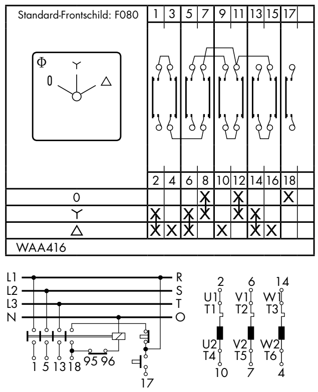
A410



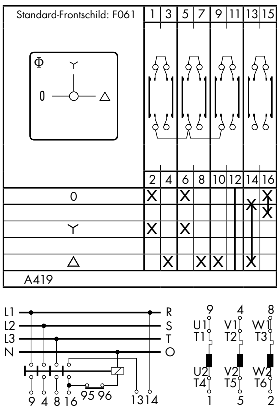
WAA413



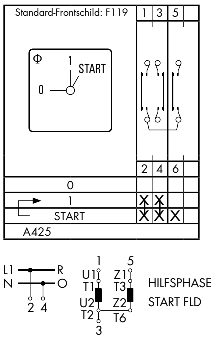
WAA416



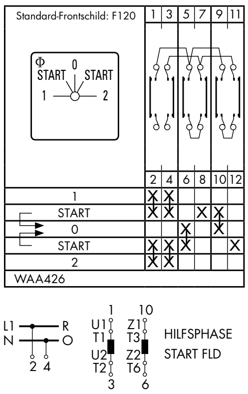
A419



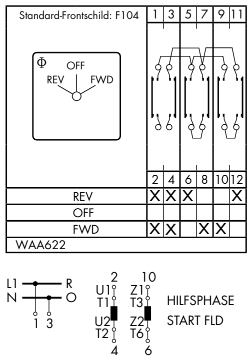
A425



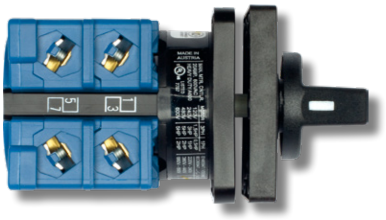
WAA426



WAA622



2- or 4-hole panel mounting, IP40 — E, E-V, ER
2- or 4-hole panel mounting, IP66/67/69k — EF, EF-V, ERF
2-hole panel mounting, IP65 — E22, E22-V

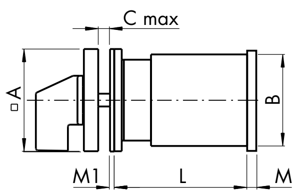


For front mounting you have various options available. Type „*ER.*" for installation with additional rear Mounting plate. „*-V*" indicates that the terminals are rotated 90° clockwise.

	CGD4-1, CAD4-1, CG4.., CA4.., CH6	CH10, CA10, CA10S, CH11, CH16, CG8, CA11, CA20, CA20S, CA25, CA25S, CAD11, DH10, DH11	CH10B, CH16B, CA10B, CA11B, CA20B, CA25B, CG8B, DH10B, DH11B, CA40, CA40S, CA50, CA50S, CA63, CA63S	CA40C, CA50C, CA63C, C80, C125, C315
Size	**S00**	**S0**	**S1**	**S2/S3**
2-hole, IP40	*E* *E-V*			
2-hole, IP66/67/69k	*EF* *EF-V*			
4-hole, IP40		*E, ER* [1] *E-V*	*E, ER* [1] *E-V*	*E, ER*
4-hole, IP66/67/69k		*EF, ERF* [1] *EF-V*	*EF, ERF* [1] *EF-V*	*EF, ERF*
2-hole, IP65		*E22* *E22-V*		

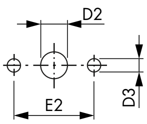
	CG4..	CA4..	CH6	CH10, CH11, CH16	CH10B, CH11B, CH16B
A	30	30	30	48	64
B	28	29,5	46	46	56
C	4	4	4	4	4
D3	3,2	3,2	3,2	5	5
E1	-	-	-	36	48
E2	20	20	20	30	-
M1 [4]	1	1	1	0	0
D2					
E, E-V, ER	8–11	8–11	8 – 11	8–15	10–15
EF, EF-V, ERF	8–11	8–11	8–11	15–19	19–22
E22, E22-V	-	-	-	11–15	-

Dimension L on page 163



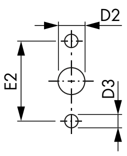
	CG8	CG8B	CA10, CA10S, CA11, CAD11	CA10B, CA11B, CA20B
A	48	64	48	64
B	38	48	43	56
C	4	4	4	4
D3	5	5	5	5
E1	36	48	36	48
E2	30	-	30	-
M[2]	-	-	4,5	5
M1 [4]	0	0	0	0
D2				
E, E-V, ER	8–15	10–15	8–15	10–15
EF, EF-V, ERF	15–19	19–22	15–19	19–22
E22, E22-V	11–15	-	11–15	-

E, EF for CG4, CH6
E-V, EF-V for CA4
E22 for CG8
E22-V for CH10–CH16, CA10–CA25, CAD11/12



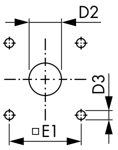
	DH10, DH11	DH10B, DH11B	CA20, CA20S	CA25, CA25S	CA25B
A	48 (64 [2])	64	48	48 (64 [2])	64
B	42	56	45	46	56
C	4	4	4	4	4
D3	5	5	5	5	5
E1	36 (48 [2])	48	36	36 (48 [2])	48
E2	-	-	30	30	-
M[2]	5,5	-	4,5	5,5	5,5
M1 [4]	0	0	0	0	0
D2					
E, E-V, ER	8–15	10–15	8–15	8–15	10–15
EF, EF-V, ERF	15–19	19–22	15–19	15–19	19–22
E22, E22-V	11–15	-	11–15	11–15	-

E, EF for CA4
E-V, EF-V for CG4, CH6
E22-V for CG8
E22 for CH10–CH16, CA10–CA25, CAD11/12



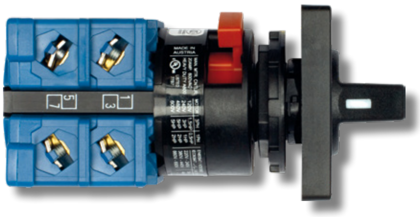
	CA40, CA40S, CA50, CA50S, CA63, CA63S	CA40C–CA63C [6]	C80 [6]	C125 [6], C200-4 [6]	C315 [6]
A	64 (88 [2])	88	88	88	130
B	55,5x64	55,5x64	84	88 [3]	126 [3]
C	4	5,5	5,5	5,5	7
D3	5 (6 [2])	6	6	6	7
E1	48 (68 [2])	68	68	68	104
M	7,6 [2]	7,6 [2]	9,4 [2]	9,4 [2] (34,5 [5])	11,9 [2]
M1 [4]	0	0	0	0	0
D2					
E, E-V, ER	10–15	13–17	13–17	13–17	15,5–20
EF, EF-V, ERF	19–22	26–30	26–30	26–30	22–25
E22, E22-V	-	-	-	-	-

E, E-V, EF, EF-V, ER, ERF, size S0 – S3
For Face plate and rear mounting panel



[1] Not for CG.. and CH.., because of the connection direction from behind. | [2] Dimensions for ER and ERF rear mounting panel. | [3] Additional dimension for terminal lugs see page 156 [4] Additional length for EF. | [5] C200-4 with rear mounting panel (incl. additional latching mechanic) | [6] Shipment without mounting screws.

Single hole mounting 16/22/30 mm, IP66, IP69k (FT. + FH.) — FH., FH.-V, FS., FS.-V, FT., FT.-V



Saving time by using switches with Single hole mounting. This type of mounting is fixed about 5 times faster as a conventional four hole panel mounting. All switches with Single hole mounting have the high degree of protection IP66. Switches supplied with escutcheon plate or front ring.

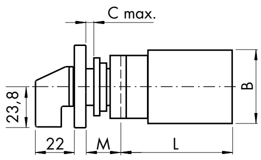
An extension ring is enclosed when two drill diameters are specified.

When ordering with the suffix *...-V*, the switches can be supplied with connection terminals rotated 90 ° clockwise.

Design	Size	Face plate-/ Ring size	∅ Hole	Code
Front ring 	S00	Ø 29,5	16,2/22,3	*FS1*
	S0	Ø 39,4	22,3	*FT1*
		Ø 39,4	22,3/30,5	*FT3*
Square escutcheon plate 	S00	30 x 30	16,2/22,3	*FS2*
	S0	48 x 48	22,3	*FT2*
			22,3/30,5	*FT4*
	S1 [1]	64 x 64	22,3	*FH3*
Rectangular escutcheon plate 	S00	30 x 39	16,2/22,3	*FS4*
	S0	48 x 59	22,3	*FT6*
	S1 [1]	64 x 78,5	22,3	*FH4*

[1] with reinforced stop

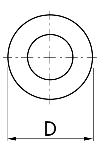
Dimension L on page 163



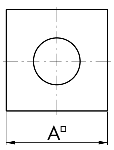
	CG4–CGD4-1 CA4–CAD4-1	CH6	CH10, CH11 CH16	CG8
A/E	30	30	48	48
A/E (FH3)			64	64
A/E (FH4)			64	64
B	28 / 29,5 [2]	46	46	38
C	5	5	6	6
D	29,5	29,5	39,4	39,4
F	39	39	59	59
F (FH4)			78,5	78,5
M	12,5	12,5	18,2	18,2
M (FH3)			25,2	25,2
M (FH4)			25,2	25,2

[2] only applies to CA4–CAD4-1

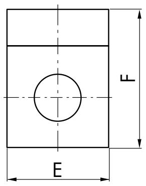
FS1
FT1, FT3



FH3
FS2
FT2, FT4

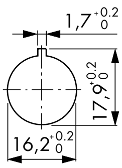


FH4
FS4
FT6

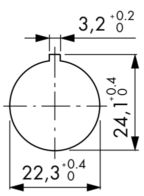


	CA10, CA10S CA11, CAD11	DH10, DH11	CA20, CA20S CA25, CA25S
A/E	48	48	48
A/E (FH3)	64	64	64
A/E (FH4)	64	64	64
B	43	42	46
C	6	6	6
D	39,4	39,4	39,4
F	59	59	59
F (FH4)	78,5	78,5	78,5
M	18,2	18,2	18,2
M (FH3)	25,2	25,5	25,2
M (FH4)	25,2	25,5	25,2

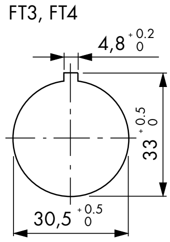
FS1, FS2, FS4



FH3, FH4
FS1, FS2, FS4
FT1, FT2
FT3, FT4, FT6

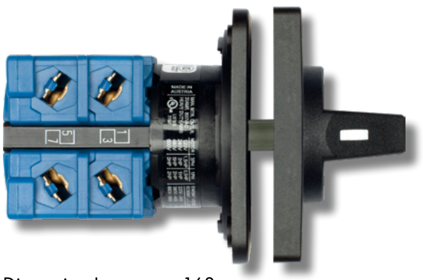


FT3, FT4



Mounting

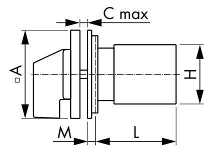
Front panel mounting using larger f ace plate and handle, IP40 / IP66/67, IP69k — EG, EGF

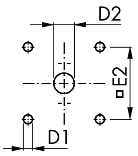


EG – Heavy duty latching panel, degree of protection IP40

EGF – Heavy duty latching panel, degree of protection IP66/67, IP69k

Dimension L on page 163



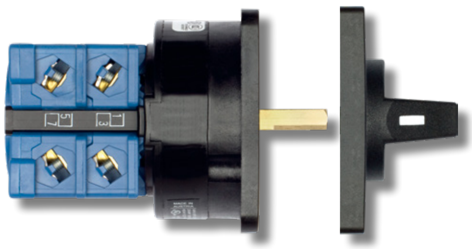


	CH10, CH11 CH16	CG8	CA10, CA10S CA11, CAD11	DH10, DH11
A	64	64	64	64
C	4	4	4	4
D1	5	5	5	5
D2 (EG)	10–15	10–15	10–15	10–15
D2 (EGF)	19–22	19–22	19–22	19–22
E2	48	48	48	48
H	46	38	43	42
M	6,7	6,7	6,7	6,7

	CA20 CA20S	CA25 CA25S	CA40, CA40S, CA50 CA50S, CA63, CA63S [1]	C80 [1]	C125 [1]
A	64	64	88	130	130
C	4	4	5,5	7	7
D1	5	5	6	7	7
D2 (EG)	10–15	10–15	13–17	15,5–20	15,5–20
D2 (EGF)	19–22	19–22	26–30	22–25	22–25
E2	48	48	68	104	104
H	45	46	55,5 x 64	84	88
M	6,7	6,7	0,5	2	2

[1] Shipment without mounting screws.

Front panel mounting with heavy duty latching and metal shaft, IP40 / IP66 — KN2, KN1, KD1, KN2F, KN1F, KD1F

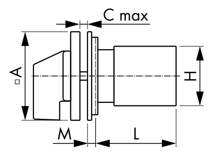


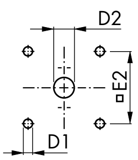
Aluminium shaft, size S0 (48 x 48)
KN2 – Degree of protection IP40
KN2F – Degree of protection IP66/67

Aluminium shaft, size S1 (64 x 64)
KN1 – Degree of protection IP40
KN1F – Degree of protection IP66/67
Shipment without mounting screws [1]

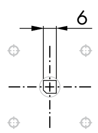
Square metal shaft, size S1 (64 x 64)
KD1 – Degree of protection IP40
KD1F – Degree of protection IP66/67
Shipment without mounting screws [1]

Dimension L on page 163





Square shaft KD1, KD1F



KN2 KN2F	CH10, CH11 CH16	CG8	CA10, CA11 CAD11	DH10 DH11	CA20	CA25
A	48	48	48	48	48	48
C	4	4	4	4	4	4
D1	5	5	5	5	5	5
D2 (KN2)	8–19	8–19	8–19	8–19	8–19	8–19
D2 (KN2F)	15– 19	15– 19	15– 19	15– 19	15– 19	15– 19
E2	36	36	36	36	36	36
H	46	38	43	42	45	46
M	5,2	5,2	5,2	5,2	5,2	5,2

KN1, KN1F KD1, KD1F	CH10, CH11 CH16	CG8	CA10, CA11 CAD11	DH10, DH11	CH10B CH16B
A	64	64	64	64	64
C	4	4	4	4	4
D1	5	5	5	5	5
D2 (KN1/KD1)	10–22	10–22	10–22	10–22	10–22
D2 (KN1F/KD1F)	19–22	19–22	19–22	19–22	19–22
E2	48	48	48	48	48
H	46	38	43	42	56
M	4,7	4,7	4,7	4,7	7

KN1, KN1F KD1, KD1F	CA10B CA11B CA20B	DH10B DH11B	CA20	CA25	CA25B	CA40 CA50 CA63
A	64	64	64	64	64	64
C	4	4	4	4	4	4
D1	5	5	5	5	5	5
D2 (KN1/KD1)	10 –22	10 –22	10–22	10–22	10–22	10–22
D2 (KN1F/KD1F)	19 –22	19 –22	19 –22	19 –22	19 –22	19 –22
E2	48	48	48	48	48	48
H	56	56	45	46	56	55,5 x 64
M	7	12	4,7	4,7	7	7

[1] Recommendation: 4 x M4 x 15 or Kit: S0D M280 N

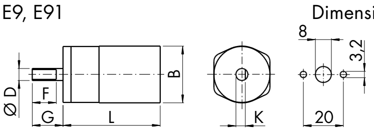
Front panel mounting with round shafts or mosaic mounting, IP40 — E9–E94

E9 – 2-hole panel mounting, round shaft Ø 6
E91 – 2-hole panel mounting, round shaft Ø 6,35

E92 – 4-hole panel mounting Siemens-Mosaik 30 mm grid depth
E93 – 2-hole panel mounting
Subklew-, Kreuzenbeck-, Symo-Mosaik
28 mm 25 mm 25 mm
E94 – 2-hole panel mounting Mauell-Mosaik 30 mm grid depth

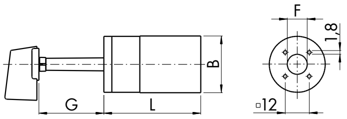
E9, E91

Dimension L on page 163



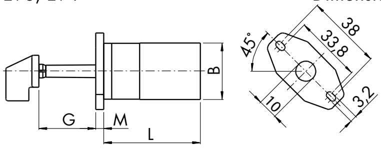
E92

Dimension L on page 163



E93, E94

Dimension L on page 163



	CG4.., CGD4-1	CA4.., CAD4-1	CH6
B	28	29,5	46

	CG4.., CA4.., CH6				
	E9	E91	E92	E93	E94
D	6	6,35			
F	12	12,8			
G	15,4	17,4	32,5	28,5	32,5
K	4,7	5,5			
M				4	

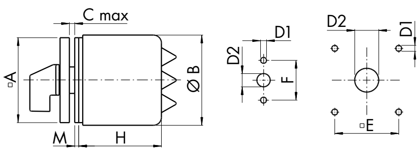
Front panel mounting with protective cover — EC., ED..

Protective covers with other mountings: see chapter OPTIONAL EXTRAS.

EC – 4-hole panel mounting, front IP40 – rear IP30
ED – 4-hole panel mounting + additional shaft seal, front IP65 – rear IP30 (CH..–CA25B)

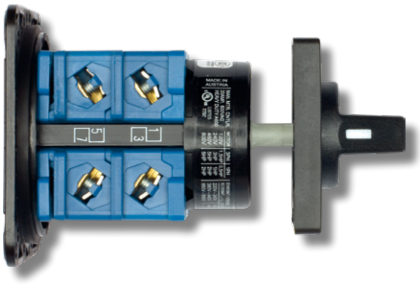
EC1 – 4-hole panel mounting, front IP40 – rear IP42
ED1 – 4-hole panel mounting + additional shaft seal, front IP65 – rear IP42 (CH..B–CA25B)

ED22– 2-hole panel mounting, front IP66/69k – rear IP42 (CH10–CH16, CG8, CA10–CA25, CAD..)



		CH10 CH11 CH16		CG8	CA10 CAD11		CH10B CH16B		DH10 DH11	DH10B DH11B	CA10B		CA11		CA11B		CA20 CA25		CA20B CA25B	
		EC ED	ED22	ED22	EC ED	ED22	EC ED	EC1 ED1	ED	EC ED	EC ED	EC1 ED1	EC ED	ED22	EC ED	EC1 ED1	EC ED	ED22	EC ED	EC1 ED1
A		64	48	48	48	48	64	64	64	64	64	64	48	48	64	64	64	48	64	64
B		68	74	74	50	74	68	74	68	88	88	74	50	74	88	74	68	74	88	74
C	EC, EC1	4			4		4	4	4	4	4	4	4		4	4	4		4	4
C	ED, ED1, ED22	2	4	4	2	4	4	4	2	4	2	4	2	4	4	4	2	4	4	4
D1		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
D2	EC, EC1	8-15			8-15		10-15	10-15	8-15	10-15	10-15	10-15	8-15		10-15	10-15	8-15		10-15	10-15
D2	ED, ED1, ED22	19-22	11-15	11-15	15-19	11-15	19-22	19-22	19-22	19-22	19-22	19-22	15-19	11-15	19-22	19-22	19-22	11-15	19-22	19-22
E		48			36		48	48	48	48	48	48	36		48	48	48		48	48
F			30	30		30								30				30		
M	ED, ED22	2	1,5	1,5	2	1,5	2		2	2	2		2	1,5	2		2	1,5	2	
1			74,3	74,3	53,5	74,3		72,7	103	127		73,7	53,5	74,3		73,7		74,3		73,7
2			74,3	74,3	53,3	74,3		72,7	103	127		73,7	53,5	74,3		73,7		74,3		73,7
3			94,3	94,3	67,5	74,3		92,7	103	127		73,7	67,5	74,3		93,7		74,3		93,7
4		103	94,3	94,3	67,5	74,3	114,5			127		93,7	81,5	94,3		93,7		94,3		93,7
5	Measure H			94,3	81,5	94,3	127			139,5		93,7			103		103		103	
6	ccording to				81,5	94,3	139,5			164,5	103				127				127	
7	number of						164,5			177	127				139,5				139,5	
8	stages						177				127				152				152	
9											139,5				164,5				164,5	
10											152				177				177	
11											152									
12											164,5									

Base mounting (without door clutch) VE, VE-V, VE1, VE1-V, VF, VF-V, VE22, VE22-V, VF22, VF22-V



VE – Mounting plate and escutcheon plate with 4-hole panel mounting, IP40

VE1 – Snap-on base mounting for DIN rail acc. to EN 60715, escutcheon plate with 4-hole panel mounting, IP40

When ordering with the suffix *...-V*, the switches can be supplied with connection terminals rotated by 90 ° clockwise.
(Not applicable for CA25B – CA63S)

VF – Mounting plate and escutcheon plate with 4-hole panel mounting, Integrated door clutch for enclosures, IP65

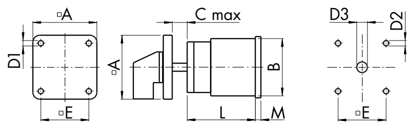
VE22 – Mounting plate and escutcheon plate with 2-hole panel mounting, IP40

VF22 – Mounting plate and escutcheon plate with 2-hole panel mounting, Integrated door clutch for enclosures, IP65

Door clutches: see Chapter ***Optional extras / Door clutches***

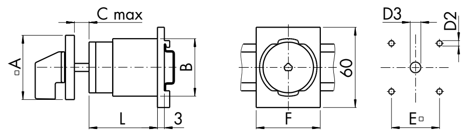
VE / VE-V

Dimension L on page 163



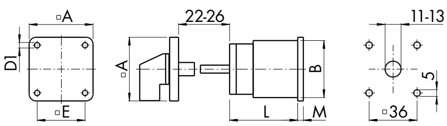
VE1
Size S0, S1

Dimension L on page 163



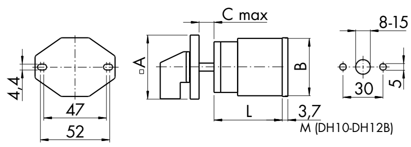
VF / VF-V
Size S0

Dimension L on page 163



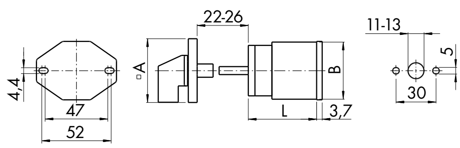
VE22 / VE22-V
Size S0

Dimension L on page 163



VF22 / VF22-V
Size S0

Dimension L on page 163



	CH10, CH11 CH16	CG8	CA10, CA10S CA11, CAD11	CA10B, CA20B
A	48 (64 [1])	48	48	64
B	46	38	43	56
C	10,5	10,5	10,5	13,5
D1	4,1	4,1	4,1	4,1
D2	5	5	5	5
D3	8–15	8–15	8–15	10–15
E	36 (48 [1])	36	36	48
F	48	48	48	70
M	5,2	2,2	2,2	2,5

	DH10, DH11	DH10B, DH11B
A	48	64
B	42	56
C	10,5	13,5
D1	4,1	4,1
D2	5	5
D3	8–15	10–15
E	36	48
F	48	70
M (VE)	3,2	2,5
M (VE22)	1,9	-
M (VF)	3,2	-
M (VF22)	1,9	-

	CA20 CA20S	CA25 CA25S	CA25B
A	48	48 (64 [1])	64
B	45	46	56
C	10,5	10,5	13,5
D1	4,1	4,1	4,1
D2	5	5	5
D3	8–15	8–15	10–15
E	36	36 (48 [1])	48
F	48	48	70
M	2,2	3,2	2,5

	CA40, CA40S CA50, CA50S CA63, CA63S	C80	C125 C200-4	C315
A	64 (88 [1])	88	88	128
B	55,5x64	84	88	126
C	13,5	16	16	19,3
D1	5,4	5,4	5,4	7
D2	5 (6 [1])	6	6	7
D3	10–15	13–17	13–17	15,5–20
E	48 (68 [1])	68	68	104
F	70	-	-	-
M	5,1	8,9	8,9	11,4

[1] Dimensions for rear mounting panel

Base mounting for operation in control cabinet, IP40 / IP66/67, IP69k — VE1E, VE1F

VE1E – Snap-on base mounting for DIN rail acc. to EN 60715. Escutcheon plate is fixed on switch by screws. IP40.

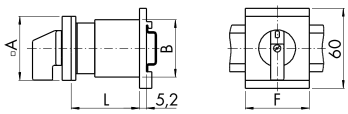
Size S00 and S0: recommended to CG4.., CG8, CH10–CH16

(Size S1: Switch in mounting E + S1 M999/D-0031)

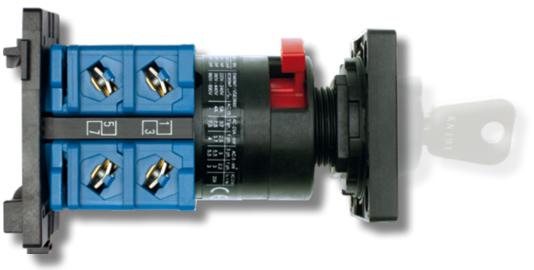
When ordering with suffix ...-V, the switches can be supplied with connection terminals rotated by 90 ° clockwise.

(Not applicable for CA25B – CA63S)

Dimension L on page 163



	CG4- CGD4-1	CH10 CH11 CH16	CG8	CA10, CA10S CA11, CAD11	DH10 DH11	CA20 CA20S	CA25 CA25S
A	30	48	48	48	48	48	48
B	28	46	38	43	42	45	46
F	35,5	48	48	48	48	48	48
M	22	28,3	28,3	28,3	28,3	28,3	28,3



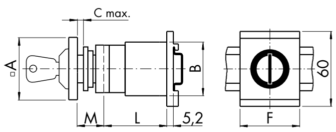
VE1F – Snap-on base mounting for DIN rail acc. to EN 60715. Escutcheon plate is fixed by Single hole mounting, for use with key-lock devices[1]. IP66/67, IP69k.

Size S00 and S0: recommended CG4.., CG8, CH10–CH16

Notice:

Suitable key-lock devices see Chapter ***„Optional extras"***

Dimension L on page 163



Ordering example size S00:

*CG4.A221.*FS2*

V750D/2J

S00.M999/D-0030

Ordering example size S0:

*CH10.A221.*VE1F*

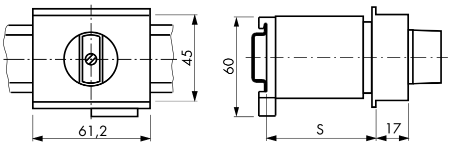
S0.V750D/3J/M1

	CG4- CGD4-1	CH10 CH11 CH16	CG8	CA10, CA10S CA11, CAD11	DH10 DH11	CA20 CA20S	CA25 CA25S
A	30	48	48	48	48	48	48
B	28	46	38	43	42	45	46
F	35,5	48	48	48	48	48	48
M	12,5	25,2	25,2	25,2	25,2	25,2	25,2

[1] Specify optional extras separately

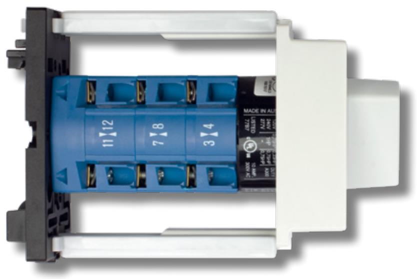
Base mounting 45 mm standard knock-out, IP20 — VE2, VE21

VE2 – Snap-on base mounting for DIN rail acc. to EN 60715 and escutcheon plate for 45 mm standard knock-out.



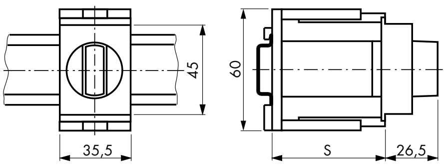
VE2	CH10, CH11 CH16	CG8	DH10, DH11	CA10, CAD11	CA11 CA20	CA25
S min.	**Number of stages**					
46	1	1	1	3	1	
50	2	2				1
61		3	2	4	2	2
67	3			5		
69					3 [1]	3

[1] Only for CA11



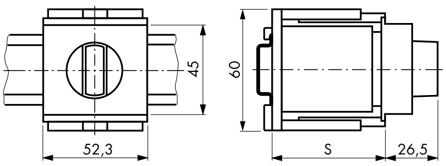
VE21 – Snap-on base mounting for DIN rail acc. to EN 60715 and escutcheon plate for 45 mm standard knock-out. Handle are adjustable in height.

VE21 (CG4.., CA4..)



VE21	CG4- CGD4-1	CG8	CH10, CH11 CH16	DH10, DH11
S min.	**Number of stages**			
44	1	1	1	1
46	2	2		
50			2	
54				2
58	3			
60		3		
64			3	
70				
72		4		3

VE21 (CH10–CH16, CG8, CA10–CA20, DH11/12)
VE21V (CA25)



VE21	CA4- CAD4-1	CA10, CAD11	CA20	CA25
S min.	**Number of stages**			
44	1/2	1/2	1/2	1
46	3	3		2
54	4			
56			3	
60				3
62	5			
66		4/5		
70	6		4	
74		6		4

Dimension L

Stages	CG4- CGD4-1	CA4- CAD4-1	CH6	CH10, CH11 CH16	CH10B CH16B	CG8	CG8B	CA10, CA10S [2] CAD11	CA10B	CA11	CA11B
1	38,5	30	46	43,5	48,9	40,7	46,1	33,5	38,9	36,7	42,1
2	50,5	38	60	57,5	62,9	53,4	58,8	43	48,4	49,4	54,8
3	62,5	46	74	71,5	76,9	66,1	71,5	52,5	57,9	62,1	67,5
4	74,5	54	88	85,5	90,9	78,8	84,2	62	67,4	74,8	80,2
5	86,5	62	-	99,5	104,9	91,5	96,9	71,5	76,9	87,5	92,9
6	98,5	70	-	113,5	118,9	104,2	109,6	81	86,4	100,2	105,6
7	110,5	78	-	127,5	132,9	116,9	122,3	90,5	95,9	112,9	118,3
8	122,5	86	-	141,5	146,9	129,6	135	100	105,4	125,6	131
9	-	94	-	155,5	160,9	142,3	147,7	109,5	114,9	138,3	143,7
10	-	-	-	169,5	174,9	155	160,4	119	124,4	151	156,4
11	-	-	-	183,5	188,9	167,7	173,1	128,5	133,9	163,7	169,1
12	-	-	-	197,5	202,9	180,4	185,8	138	143,4	176,4	181,8

Stages	DH10, DH11	DH10B, DH11B	CA20 CA20S [2/5]	CA20B	CA25 CA25S [2]	CA25B	CA40, CA40C [3], CA40S [4] CA50, CA50C [3], CA50S [4] CA63, CA63C [3], CA63S [4]	C80	C125 C200-4 [1]	C315 [1] C316 [1]
1	43,5	48,9	37,7	43,1	39	44,4	42,5	61,5	67,5	78,6
2	61	66,4	50,4	55,8	53	58,4	55,2	88	100	117,2
3	78,5	83,9	63,1	68,5	67	72,4	67,9	114,5	132,5	155,8
4	96	101,4	75,8	81,2	81	86,4	80,6	141	165	194,4
5	113,5	118,9	88,5	93,9	95	100,4	93,3	167,5	197,5	233
6	131	136,4	101,2	106,6	109	114,4	106	194	230	271,6
7	148,5	153,9	113,9	119,3	123	128,4	118,7	220,5	262,5	310,2
8	166	171,4	126,6	132	137	142,4	131,4	247	295	348,8
9	183,5	188,9	139,3	144,7	151	156,4	144,1	273,5	327,5	387,4
10	201	206,4	152	157,4	165	170,4	156,8	300	360	426
11	218,5	223,9	164,7	170,1	179	184,4	169,5	326,5	392,5	464,6
12	236	241,4	177,4	182,8	193	198,4	182,2	353	425	503,2

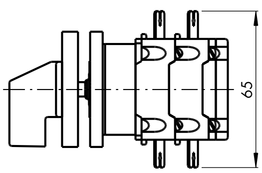
[1] Look for dimensions of bolt terminals on this page. | [2] Type supplement S for CA10S, CA20S , CA25S = L + 17,3
| [3] CA40C, CA50C, CA63C = L + 8,2 | [4] CA40S, CA50S, CA63S = L + 20 | [5] CA25S only up to 6 stages possible

Dimension L

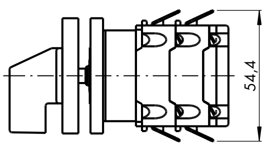
Mounting

Dimensions of plug-in connection and bolt terminals

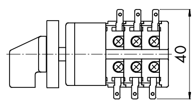
CH...-4 (Connection straight 2 x 2,8 or 1 x 6,35)



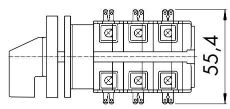
CH...-6 (Connection rotated by 90 ° clockwise 2 x 2,8 or 1 x 6,35)



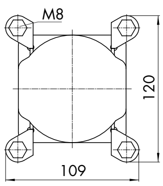
CA4-4 (Connection straight 1 x 2,8)



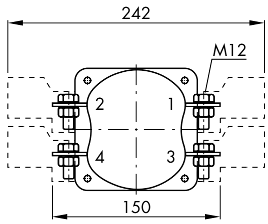
DH...-4 (Connection straight 2 x 2,8 or 1 x 6,35)



C200-4



C315, C316



Plastic enclosures IP66/67

Enclosures series with high mechanical strength, oversized wiring space and cover clutch.

KS-, KL series ➡ with high UV resistance
CS-, CL series ➡ for aggressive environment such as oil, grease and other chemical substances

There are two knock-outs for metric threads at the top and bottom acc. to EN 50262. A protective earth and neutral terminal per enclosure is included in delivery. Size S0 enclosures are equiped with additional lateral knock-outs and a cover interlock, which allows opening without dismantling the handle and locking cover in one switch position optional.

Without cover interlock

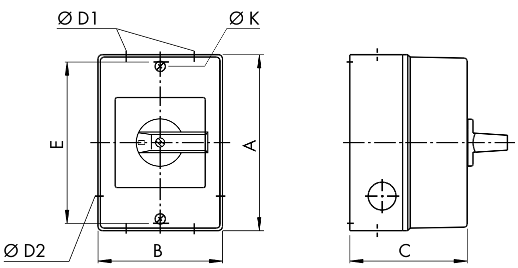
switch-type	Max. Number of stages	Mounting
CG4–CGD4-1, CG6 CA4–CAD4-1	2 3	*KS3, CS3*
CA10 CA11, CA20, CA25, CG8, CH10–CHR16	6 5 4	*KS50, CS50*
CH10–CHR16 CA10 CA11, CA20, CA25, CG8	2 3 2	*KL50, CL50*

With cover interlock (switch open at nine o'clock position)

switch-type	Max. Number of stages	Mounting
CA10 CA11, CA20, CA25, CG8, CH10–CHR16	6 5 4	*KS51, CS51*
CH10–CHR16 CA10 CA11, CA20, CA25, CG8	2 3 2	*KL51, CL51*

With cover interlock (switch open at twelve o'clock position)

switch-type	Max. Number of stages	Mounting
CH10–CHR16, CA25, CG8 CA10 CA11, CA20	4 6 5	*KS52, CS52*
CH10–CHR16 CA10 CA11, CA20, CA25, CG8	2 3 2	*KL52, CL52*



Type	Max. number of stages	Mounting	A	B	C	Conduit entries per 4 x D1	Conduit entries per 2 x D2	E	K
CA4–CAD4-1 CG4–CGD4-1	2 1	KS3 CS3	90	70	60	16	–	82	4,2
CA4–CAD4-1 CG4–CGD4-1 CG6	3 2 2		90	70	77	16	–	82	4,2
CA10 CA11 CA20, CA25, CG8 CH10–CHR16	4 3 2 2	KS50, KS51, KS52 CS50, CS51, CS52	121	86	80	20/25[1]	20	110	4,2
CA10 CA11, CA20 CA25, CG8, CH10–CHR16	6 5 4 4		121	86	106	20/25[1]	20	110	4,2
CA10 CA11, CA20 CA25, CG8, CH10–CHR16	3 2 2 2	KL50, KL51, KL52 CL50, CL51, CL52	160	85	80	20	20	150	4,2

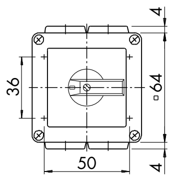
[1] CS.. only 20

Small-sized Plastic enclosures, IP42 / IP65 — PN., PF.

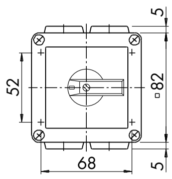
Compact size and threaded entries.
Optional with built-in lamp. Look at page 142
Inclusive protective earth terminal.

PN1/PN4 – IP42
PF1/PF4 – IP65

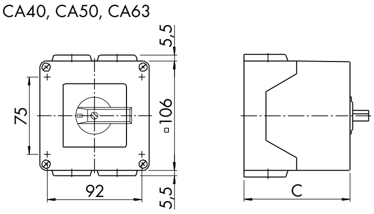
CA10



CA11, CA20, CA10B, CA11B, CA20B, CA25



CA40, CA50, CA63



Type	Number of stages	PN1 C	PF1 C	Conduit entries per 4 x
CA10	1 2 3 4	36,6 45,8 55,3 64,8	41,3 50,8 60,3 69,8	M20
CA11, CA20, CA11B, CA20B	1 + 2	59,7	64,7	M20
CA11, CA20, CA10B, CA11B, CA20B	3 + 4 [1]	85,1	90,1	M20
CA25	1 + 2 3 4	59,7 85,1 93	64,7 90,1 98	M20
Type	**Number of stages**	**PN4 C**	**PF4 C**	**Conduit entries per 4 x**
CA40, CA50, CA63	1–3 4–6	89 132	94,5 137,5	M25

[1] CA10B only for 4 stages

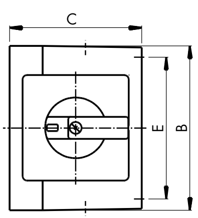
Additional protective earth-/neutral terminal

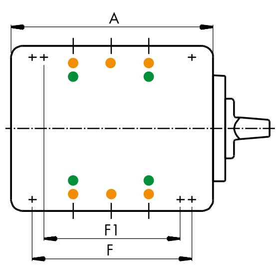
2007922 | S0D.T410.A for CA10
2014595 | S1D.T410.A for CA11, CA20, CA10B, CA11B, CA20B, CA25
2048267 | S1D.T430.A for CA40, CA50, CA63

Aluminum enclosures, IP65 — GK.

Rugged design for rough environment.
Inclusive a protective earth terminal.

switch-type	Max. Number of stages	With metric thread	without Conduit entries
A11	10	GK1	GK9
CA10	3		
CA11, CA20	2		
CA10B	12		
CA11B, CA20B	10		
CA25B	9		
CA40, CA50, CA63	10		





switch-type	Stages	A	B	C	E	F	F1	Conduit entries
CA10, CA11, CA20	3 2	80	75	57	63	–	52	4 x M20
CA10B CA11B, CA20B CA25B	4 3 2	100	100	80	86	66	–	4 x M20
A11 CA10B CA11B CA20B, CA25B CA40, CA50, CA63	5 7 6 5 5	140	140	90	120	93	–	4 x M25
A11 CA10B CA11B, CA20B CA25B CA40, CA50, CA63	10 12 10 9 10	200	140	90	93	180	–	6 x M25

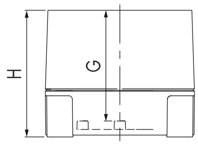
Polycarbonate enclosures

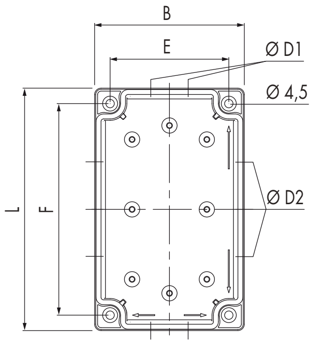
For use in harsch environment.
Includes base part, cover and cover screw set

Color: Light gray, RAL 7035
Degree of protection: IP66/67
Protection class: Ik 08
Insulated, high chemically resistance

Length x width	Height*	Name	Art. no.
130 x 80	100	ST4.M311	**2152995**
130 x 130	75	ST4.M212	**2054960**
	100	ST4.M312	**2054964**
	125	ST4.M412	**2054969**
180 x 130	100	ST4.M313	**2054965**
	125	ST4.M413	**2054970**
	150	ST4.M513	**2054972**
180 x 180	125	ST4.M414	**2054971**
255 x 180	150	ST4.M515	**2054974**

*More enclosure heights on request





	B	D1	D2	E	F	G	H	L
ST4.M311	80	1 x 25/16	2 x 32/20	63,5	113,5	86,3	100	130
ST4.M212	130	2 x 25/16	2 x 32/20	113,5	113,5	61,0	75	130
ST4.M312	130	2 x 25/16	2 x 32/20	113,5	113,5	86,2	100	130
ST4.M412	130	2 x 25/16	2 x 32/20	113,5	113,5	111,3	125	130
ST4.M313	130	2 x 32/20	3 x 25/16	113,5	163,5	86,2	100	180
ST4.M413	130	2 x 32/20	3 x 25/16	113,5	163,5	111,3	125	180
ST4.M513	130	2 x 32/20	3 x 25/16	113,5	163,5	135,9	150	180
ST4.M414	180	3 x 25/16	3 x 32/20	163,5	163,5	111,3	125	180
ST4.M515	180	3 x 32/20	3 x 25/16 + 2 x 32/20	163,5	238,5	135,9	150	255

Drill pattern for switch installation, symmetric

Drill holes for	Name
Single hole mounting Ø 22,5 mm	ST4.T999/D-1402
Single hole mounting Ø 30 mm	ST4.T999/D-1403

Drill holes for	Name
Four hole mounting, escutcheon plate 48 x 48	ST4.T999/D-1400
Four hole mounting, escutcheon plate 64 x 64	ST4.T999/D-1401
Four hole mounting, escutcheon plate 88 x 88	ST4.T999/D-1404

Drill holes for	Name
Switch with half-cylinder lock V755/..	ST4.T999/D-1320

Drill holes for	Name
Switch with half-cylinder lock V765/.. only for enclosures with dimensions L from 180 mm	ST4.T999/D-1600

Ordering example:
ST4.M212
ST4.T999/D-1400

DIN rails

2017934 | ST5.A000.03
2017933 | ST5.A000.02

2017935 | ST5.A000.04
2018043 | ST6.A000.97

Dimensions	For enclosures with width
65	80
115	130
165	180
240	255

7,5 mm root face

Mounting panel

2055014 | ST5.A000.54
2017966 | ST5.A000.64
2147286 | ST5.A000.66

L x W 148 x 98, for enclosures with L x W 180 x 130
L x W 148x148, for enclosures with L x W 180 x 180
L x W 223x148, for enclosures with L x W 255 x 180

2 mm steel plate

Protective earth/Neutral terminals

2055043 | ST5.A022 + **2017767** | ST1.A100.73
2055044 | ST5.A022/N + **2017767** | ST1.A100.73

Protective earth terminal + spacer for DIN rail
Neutral terminal + spacer for DIN rail

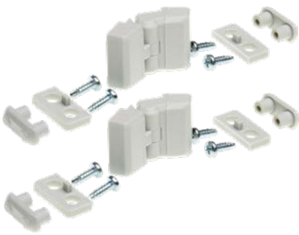
2055047 | ST5.A024
2055048 | ST5.A024/N

Protective earth terminal isolated for mounting panel
Neutral terminal isolated for mounting panel

Max. Permissible Wire Gage (use copper wire only)	
Single-core or stranded wire	6 mm^2
Flexible wire	6 mm^2
Flexible wire with sleeving in accordance with DIN 46228	4 mm^2
Wire stripping	12 mm
Tightening torque	1,3 Nm

Hinge unit

2017910 | ST4.A000.SP



1 pair incl. fixing screws

Cover screw set

2017909 | ST4 A000.01

4 cover screws und 4 fixing screws for DIN rail and mounting panel

Mounting

Key-lock devices for single hole mounting 16/22 mm, IP66/67/69k

Size S00

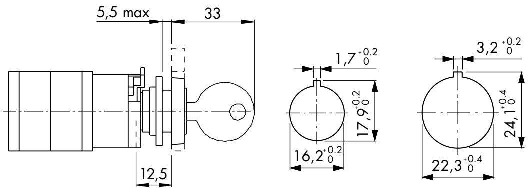
V750D/2.

(Use for safety requirements V750D/D.)

Ordering example:	
CA4.A200*FS2	
V750D/ 2 H	
2	= Standard closure 601
	= Key removable

For switch size S00	
With Front ring Ø 29,5 mm	Mounting FS1
With escutcheon plate 30 x 30 mm	Mounting FS2
With escutcheon plate 30 x 39 mm	Mounting FS4

Spare key 601
2005442 | S00.V750.S2



Key removable		
60°	90°	180°
M H P	G	C
N J Q		D

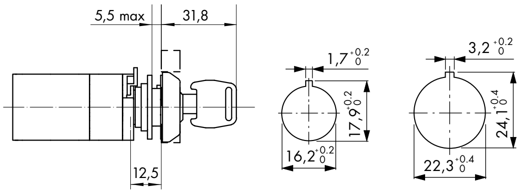
Size S00 with premium MICROMEC-Lock

V750D/5.

Ordering example:	
CA4.A200*FS2	
V750D/ 5 F	
5	= MICROMEC-Lock, closure MM600
	= Key removable

For switch size S00	
With front ring Ø 29,5 mm	Mounting FS1
With escutcheon plate 30 x 30 mm	Mounting FS2
With escutcheon plate 30 x 39 mm	Mounting FS4

Spare key MM600
2311367 | S00.V750/MM600



Key removable			
12 o'clock	9 o'clock	90°	180°
A	B	E F G R	C
			D

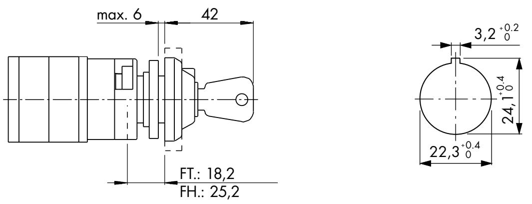
Size S0

V750D/3.

Ordering example:	
CA10.A200*FT2	
V750D/ 3 G	
3	= Standard closure KN101
	= Key removable

For switch size S0	
With front ring Ø 39,4 mm	Mounting FT1
With escutcheon plate 48 x 48 mm	Mounting FT2
With escutcheon plate 64 x 64 mm	Mounting FH3
With escutcheon plate 48 x 59 mm	Mounting FT6
With escutcheon plate 64 x 78,5 mm	Mounting FH4

Spare key KN101
2006230 | S0C.V750.S2



Abziehprogramm des Schlüssels			
45°	60°	90°	180°
K	M H P	G	C D
S	N J Q		T U
	X		V W

Key-lock device für base mounting VE21

Size S00

V750D/..

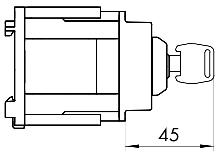
(Use for safety requirements V750D/5.)

Ordering example:	
*CA4.A200*VE21*	
V750D/ 5 A	
5	= Premium MICROMEC-Lock, Closure MM600
2	= Standard closure 601
	= Key removable (refer scheme below)

We recommend mounting *VE21-V when using CG4. This type of mounting provides vertical terminals (top and bottom) instead of standard horizontal terminals (left and right).
Possible number of stages: CA4.. = 2-5, CG4.. = 1-3

Spare key

5 **2311367** | S00.V750/MM600
2 **2005442** | S00.V750.S2

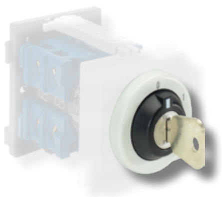


Key removable with MICROMEC-Lock			
12 o'clock	9 o'clock	90°	180°
A	B	E F G R	C D

Key removable with standard lock		
60°	90°	180°
M H P N J Q	G	C D

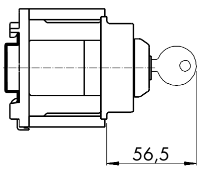
Size S0

V750D/3.



Ordering example:	
*CH10.A200*VE21*	
V750D/ 3 G	
3	= Standard closure KN101
	= Key removable

Spare key KN101
2006230 | S0C.V750.S2

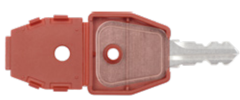


Key removable			
45°	60°	90°	180°
K S	M H P N J Q	G	C D

Key covers

Red

2005420 | S00.V750.52



For key S0C.V750.S2

2005421 | S00.V750.62

For key S00.V750.S2

Optional extras

Key-lock device with premium Kaba 8 lock, Standard closure AS158274 (compatible with 316201), IP40

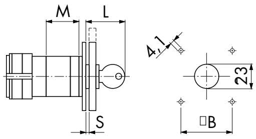
Four hole panel mounting, (For switch size S0, shipment without mounting screws)[1]

V750D/.../.

Spare key AS158274
2013625 | S1C.V760.S2
(AS158274, compatible with Kaba 316201)

Ordering example:
*CA10.A200*E*
S0.V750D/ A 1 A / 1

A	= square escutcheon plate
B	= rectangular escutcheon plate
1	= Kaba 8 closure, cylinder 1065, for programs A to G
2	= Kaba 8 closure, cylinder 1262, for programs G to L
	= Key removable (refer scheme below)
1	= escutechon plate 48 x 48 □, 48 x 59 ▯, (Mounting E)
11	= escutechon plate 64 x 64 □, 64 x 79 ▯, (Mounting EG)



Key removable	B (E)	B (EG)	M (E)	M (EG)	S	L (E)	L (EG)
1A–1G	36	48	30,5	32,2	1–3,5	40,3	39,8
2G–2L					1–12,5	49,3	48,8

[1] Recommendation: 4 x M4 x 15 or Kit: S0D.M280.N (for S max. 3,5 mm)

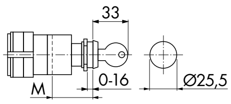
Single hole mounting 25mm and front ring Ø 35mm (For switch size S0)

V750D/..1

Spare key AS158274
2013625 | S1C.V760.S2
(AS158274, compatible with Kaba 316201)

Ordering example:
*CA10.A200*EL*
S0.V750D/ 1 A 1

1	= Kaba 8 closure, cylinder 1065, for programs A to G
2	= Kaba 8 closure, cylinder 1262, for programs G to L
	= Key removable (refer scheme below)



Key removable	M
1A–1G	37,2
2G–2L	47,2

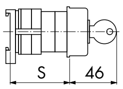
Base mounting, mounting VE2, (For switch size S0)

V750D/..2

Spare key AS158274
2013625 | S1C.V760.S2
(AS158274, compatible with Kaba 316201)

Ordering example:
*CA10.A200*VE2*
S0.V750D/ 1 A 2

1	= Kaba 8 closure, cylinder 1065, for programs A to G
2	= Kaba 8 closure, cylinder 1262, for programs G to L
	= Key removable (refer scheme below)



Max. number of stages, mounting VE2					
S	CA10	CA11	CA20	CG8	CH10
50	1	–	–	–	–
61	2	1	1	1	1
67	–	2	2	–	–
69	3	2	2	–	–

Key removable at this page						
12 o'clock	9 o'clock	30°	45°	60°	90°	180°
A	B	L	K	H, J	E, F, G	C, D

Key-lock device with Kaba 8 lock, cylinder 1007, closure AS158274 (compatible with 316201), IP40

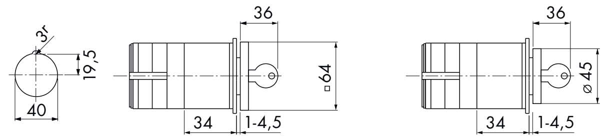
Single hole mounting 40mm (For switch size S1)

V750/A1

Spare key AS158274
2013625 | S1C.V760.S2
(AS158274, compatible with Kaba 316201)

Front ring Ø 45 mm (Mounting EL1)
Escutcheon plate 64 x 64 mm (Mounting EL2)

Key can only be removed in 12 o'clock position.
Central locking system are available.



Single hole mounting 40 mm, with additional electromechanical interlock (For switch size S1)

V750/A1+V140

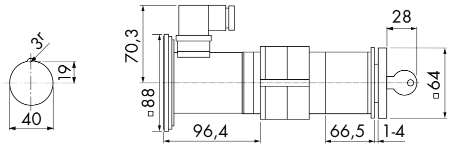
Spare key AS158274
2013625 | S1C.V760.S2
(AS158274, compatible with Kaba 316201)

Escutcheon plate 64 x 64 mm (Mounting EL2)

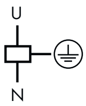
Key can only be removed in 12 o'clock position.
Central locking system are available.
The interlock device is operated by energizing or de-energizing the electromechanical system.

For major features of solenoid see Chapter
ELECTROMECHANICAL INTERLOCK DEVICE

Max. ambient temperature: 35 °C for 24 hours with peaks up to 40 °C



Magnet



Key covers 2017

2220246 | S0D.V750.92

Red
For Kaba 8 key.
Other colors are available.

Optional extras

Key-lock device with half-cylinder lock, IP66

Single hole mounting 22 mm (For switch size S0)

V750E/..

Key-lock device V750E with half-cylinder is equipped with a Single hole mounting 22 mm for switche size S0. The key can be removed in 12 o'clock position or for cam switches in every 60 ° switching angle position in up to six switch positions. The device with half-cylinder can be supplied with standard lock cylinders manufactured by BKS oder IKON.

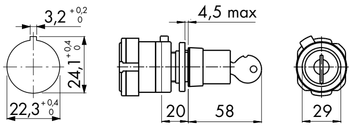
Ordering example:

*CA10.A200*FT*
S0.V750E/ C 1

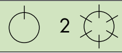
A = BKS-lock, Closure S1
C = IKON-lock, Closure 360012 [1]
= Key removable (refer scheme below)

Spare key

A no longer available
C **2012774** | S1B.V760.VA2



Key removable



[1] Only possible with locking program 2.

Key-lock device with premium DOM-lock, IP66, 1000 different locking numbers

Single hole mounting 22 mm (For switch size S0)

V756/D..

Key-lock device with half-cylinder is equipped with a Single hole mounting 22 mm for switche size S0 and could use in conjunction with switches of size S0. These must be ordered separately. The key can be removed in 12 o'clock position or for cam switches every 60 ° switching angle position in up to six switch positions.
Closures from 0001 to 1000 available. High security against key passing.

Ordering example:

K0.M999/D-0880
S0D.V756/ D 1 /KN0137/A
K0.M999/D-0880
S0D.V756/ D 1 /KN0251/A

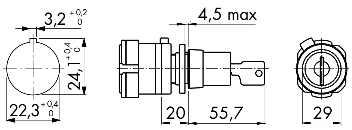
D = *DOM-lock*
= Key removable (refer scheme below)

Spare key

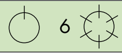
K0.M999/D-0890
S0D.V765/D1/KN..../A2

Bestellbeispiel:

CG8.A722.FT



Key removable



[1] 360° Turning movement

Key-lock device for enclosures, IP40

PN1-enclosure

For 1-stage switches of size S0, type CA11, CA20 and 2-stage switches of size S0, type CA10–CA20

Ordering example:

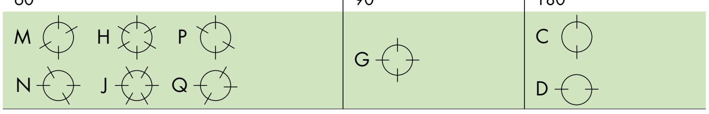
*CA10.A215*PN1*
S0.V750/ C 0 -PN
S0D.T422.MA1

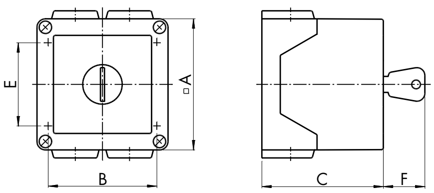
= Key removable (refer scheme below)
0 = Standard-cylinder KN101
S0D.T422.MA1 = for 2-stage switches of type CA10
S1D.T426.MA1 = for 1-stage switches of types CA11 + CA20
S1D.T427.MA1 = for 2-stage switches of types CA11 + CA20

Spare key KN101
2006230 | S0C.V750.S2

Key removable

60°	90°	180°
M H P N J Q	G	C D





Switch-type	Number of stages	A	B	C	E	F	Conduit entries per 4x
CA10	2	64	50	68,8	36	26	M20
CA11, CA20	1 + 2	82	68	75,5	52	29	M20

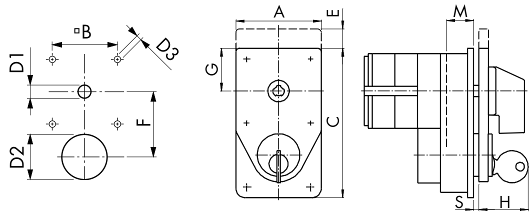
Key-lock device with separate Drive, 4-hole-mounting, IP40

With small cylinder lock (For switch sizes S0 + S1)

V760/..E

Spare key KN101
2006230 | S0C.V750.S2

Ordering example:	
CA10.A200*E	
S0.V760/ A 1 E 1	
A	= Frontschild quadratisch
B	= Frontschild rechteckig
1	= Schlüssel im gesperrten und nicht gesperrten Zustand abziehbar
2	= Schlüssel nur in gesperrtem Zustand abziehbar
E	Standardschließung KN101
1	= Nummer des Sperrprogramms (siehe Tabelle unten)



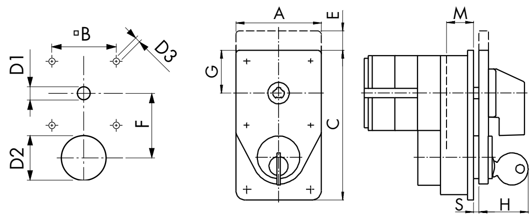
Size	A	B	C	E	F	G	H	D1	D2	D3	M	S
S0	48	36	82	12	40	24	31	8,5	22-23	5	9,5	1-4
S1	64	48	112	14,8	48	32	34,5	10	34	5	20,2	1-6

With commercial half-cylinder lock (For switch sizes S1 – S3)

V760/..B.
V760/..D.

Spare key
2012793 | S1B.V760.ZA2
(IKON 8825100 ZN1)
2013625 | S1C.V760.S2
(AS158274, compatible with Kaba 316201)

Ordering example:	
CA10B.A290*E	
S1.V760/ A 1 B 1	
A	= square escutcheon plate
B	= rectangular escutcheon plate (Size S1)
1	= Key removable in locked and unlocked order
2	= Key just removable in locked order
B	IKON-lock, closure 8825100
D	Kaba 8 lock, cylinder 1007, closure 316201
1	= Number of locking program (refer scheme below)



Size	A	B	C	E	F	G	H	D1	D2	D3	M	S
S1	64	48	112	14,8	48	32	34,5	10	34	5	20,2	1-6
S2	88	68	146	-	70	44	35,5	12	34	5,4	15,5	1-5,5
S3	130	104	181,5	-	86	65	36,5	15	34	7	24	1-7

With commercial half-cylinder lock incl. a second switch (For switch sizes S1 – S3)

*V760/..D.**

Second switch is mounted on lock and is operated with key.
Application On request

Number of locking program	Switching Angle	Switch Positions to be lockable	Switch Positions not to be lockable	Size
1	30°–90°	one	the balance	S0–S3
2	20° 30°–90°	alll	none	S0, S3 S0–S3
3	30°–90°	the balance	one	S1–S3
4	30°–90°	one[1]	the balance	S0–S3

[1] Locking program 4 permits the locking of the device in any switch position. However, the actual locking becomes effective in a pre-determined switch position only.

Optional extras

Key-lock device with half-cylinder lock, total length 40,5 mm, IP42

Four hole panel mounting (For switch size S0)

For switches with two or more switch positions available.
Switch position both-sided of max. 2 x 135° possible.
Key is removable in 12 o'clock position.

V755/A1

With lock CES 851

NEW With Closure KUN1

V755/Z1

Without lock

For switches with two switch positions available.
(For switching angle 30°)
Both switch positions are lockable.
Key is removable in 12 o'clock position.

V755/A2

With lock CES 851

NEW With Closure KUN1

Switch programs to be used:

ON/OFF switch			Double-throw switch		
WAA100, F264	instead	A200	WAA120, F072	instead	A220
WAA101, F264	instead	A201	WAA121, F072	instead	A221
WAA102, F264	instead	A202	WAA122, F072	instead	A222
WAA103, F264	instead	A203	WAA123, F072	instead	A223

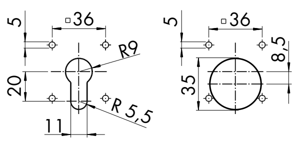
Other switch programs On request.

V755/Z2

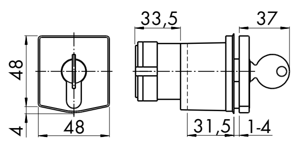
Without lock

Switch programs should be used as for type V755/A2.

NEW **Replacement available only as a set (Lock / 3 Keys KUN1)**
2324855 | S0D.V755/CESNP/KUN1



Versions optionallly available



Notice:

Suitable drilled enclosures see at chapter ***MOUNTING***.

Key-lock device with separate drive for half-cylinder lock, total length 40,5 mm, IP42

(For switch size S0)

V765/.H

With lock CES 851

NEW With Closure KUN1

V765/.Z

Without lock

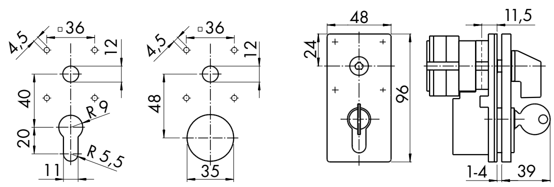
V765/.../..2

With lock CES 851
With optional dust cap, IP43

NEW With Closure KUN1

NEW

Replacement available only as a set (Lock / 3 KUN1)
2324855 | S0D.V755/CESNP/KUN1



Types optional

Ordering example:

*CA10 A200*E*

S0 V765/ A H 1

A	= Key removable in locked and unlocked order
B	= Key just removable in locked order
H	= with lock CES 851, Closure KUN1
Z	= without lock
1	= Number of locking program (refer scheme below)

Number of locking program	Switching Angle	Switch Positions	
		to be lockable	not to be lockable
1	30°–90°	one	the balance
2	20° 30°–90°	all	none
4	30°–90°	one[1]	the balance[1]

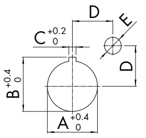
[1] Locking program 4 permits the locking of the device in any switch position. However, the actual locking becomes effective in a pre-determined switch position only.

Optional extras

Front built-in lights, IP40

Single hole mounting, lamp with 120 mm stranded wires (Size S0 and S1)

Square escutcheon plate assembled ex works

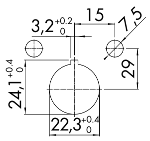


Bau-größe	A	B	C	D	E
S0	22,3	24,1	3,2	18	7,5
S1	22,3	24,1	3,2	24	7,5

Ordering example Size S0 (48 x 48)	
CH10.A215.FT2 F000	Push-button, 1-pole spring return latching mechanism of both sides, Single hole mounting
S0.F025/A10/B-E1L	Escutcheon plate with recesses top right Escutcheon plate lettering 1–0–2 (see page 176)
S0C.T700.52	Lamp (refer scheme below)

Ordering example Size S1 (64 x 64)	
CH10.A215.FH3 F000	Push-button, 1-pole spring return latching mechanism of both sides, Single hole mounting
S1.F025/A10/B-E1L	Escutcheon plate with recesses top right Escutcheon plate lettering 1–0–2 (see page 176)
S0C.T700.52	Lamp (refer scheme below)

Rectangular escutcheon plate assembled ex works



Ordering example Size S0 (48 x 59)	
CH10.A214.FT6 F000	Push-button, 1-pole spring return latching mechanism of both sides, Single hole mounting
S0.F025/A10-E1L	Escutcheon plate without recesse Escutcheon plate lettering 1–0–2 (see page 176)
S0.F991/A00/B2-P2B	Ungraved rectangular Face plate with two recesses
S0C.T700.52	Lamp (refer scheme below)

Notice:
Dimensions S1 on request

PN-enclosure ◻ 64 mm assembled ex works
Lamp with 120 mm stranded wires

Ordering example:	
CA10.A202.PN1	Complete switch, ON/OFF switch 3-pole, Plastic enclosure
S0.T999/425	Hole for lamp
S0C.T700.52	Lamp (refer scheme below)

Notice:
Larger enclosures (only for red lamp 230 V) on request

Part number lights

Name	Art. no.	Colour	Voltage
S0C.T700.52	**2006156**	red-transparent	230 V
S0C.T700.53	**2006157**	red-transparent	24 V
S0C.T700.55	**2006158**	green-transparent	24 V
S0C.T700.57	**2006159**	yellow-transparent	230 V
S0C.T700.59	**2006160**	clear	230 V

Notice:
Other colours and voltage on request.

Trip indicator, IP40

Ordering data: The color to appear after left or right operation.

M120/A
M120/B

With square escutcheon plate (64 x 64)
With rectangular escutcheon plate (48 x 59 and 64 x 78)

The trip indicator used on switches with spring return positions. It includes a colored indicator to show the last spring return position that handle has been turned.
Two possibilities for flag indicator exist:
a) left red – right green
b) left green – right red

Control and indicator device, single lamp, BA9s socket, IP42 (Max. power 2 W, Switch size S0)

Ordering data: Front end assembly and function of the mechanical interlock, quantity and operation of the Auxiliary contacts and type of the contact system.

Q120/A
Q120/F

Front ring

Escutcheon plate

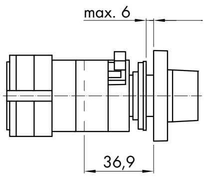
Turn to operate
Push-to-turn operation (e.g. control and alarm switch)

The control and indicator device OFFers a total switching angle of 360°, Single hole mounting 22/30 mm with lock nut and mounting/demounting without using tools.

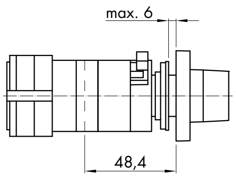
The following front end assemblies are available:
- Front ring
- Escutcheon plate 48 x 48 mm
- Escutcheon plate 64 x 64 mm

The push-to-turn version is available with 1 oder 2 Auxiliary contacts and a mechanical interlock. Optionally select between a contact system with rigid contact bridge for excellent AC-15 making and breaking capabilities, also available with gold contacts for use in aggressive (harsch) environments. Or select an H-bridge design with „crosswire" gold-plated contact system for low voltage and low current.

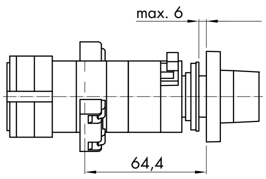
NOTICE:
Shipment without bulbs.



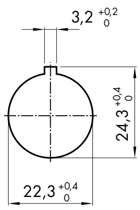
Q 120 Turn to operate



Q 120/F Push-to-turn operation (without auxiliary contacts)

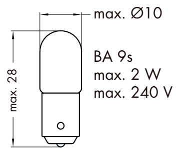


Q 120/F Push-to-turn operation (with auxiliary contacts)



LED-lamps with 4 chips and integrated bridge rectifier, BA 9s socket

Color	Voltage	Name	Art. no.
⚪	24 V–28 V AC/DC	P.SN/LW024	**2234958**
🔴		P.SN/LR024	**2234956**
🟢		P.SN/LG024	**2234954**
⚪	110-120 V AC/DC	P.SN/LW110	**2235283**
🔴		P.SN/LR110	**2235282**
🟢		P.SN/LG110	**2235281**
⚪	220 V AC/DC	P.SN/LW220	**2234959**
🔴		P.SN/LR220	**2234957**
🟢		P.SN/LG220	**2234955**



Control and indicator device, with LED module and Light Conductor, IP40 (Switch size S00)

Ordering data: Operating voltage and type of version.

Q100B

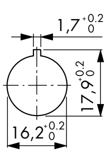
Single hole mounting

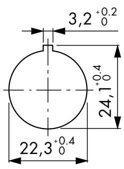
Mosaic mounting

The luminous source is a LED module with yellow lightemitting diode mounted at the end oft the switch. Light transmission via light conductor.

Voltage	Frequency	Power Consumption
24 V	AC 50–60 Hz, DC	0,2 W
48–60 V	AC 50–60 Hz	0,3 W
48–60 V	DC	1 W
110–120 V	AC 50–60 Hz	0,3 W
110–120 V	DC	1,4 W
220–240 V	AC 50–60 Hz	0,3 W
With test terminal		
24 V	DC	0,2 W
48–60 V	DC	1 W
110–125 V	DC	1,4 W

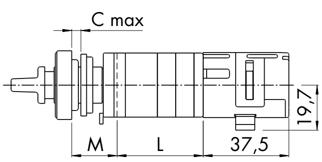
Single hole mounting (Type of version with interlock only for 22,3 mm possible)

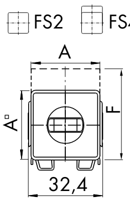


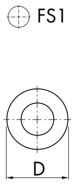


Available variations:
Without interlock (handle „turn to operate) – with interlock (handle „push-to-turn operation – push handle and turn, max switching angle 150 °, 8:00 – 1:00 o'clock.). The control and indicator device is available for single hole and mosaic mounting.

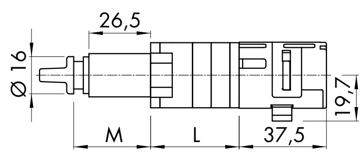
	A	C	D	F	Single hole mounting M	Mounting Ø	Mosaic mounting M
Without interlock	30	5	29,5	39	17,7	16/22	29
With interlock	30	6,5	29,5	39	19,5	22	33

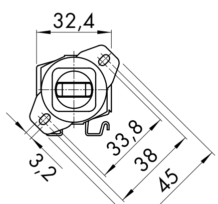






Mosaic mounting





Dimension L on page 163

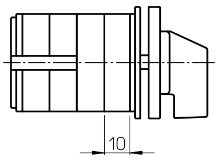
Optional extras

Stop and go devices

Ordering data: Operation of the stop and go device.

V160

The stop and go device prevents a fast switching thru the center OFF position, only possible at a 60° switching angle. The stop and go device only becomes activated in the center switch position, either in both or just in single direction.
(Size S0)



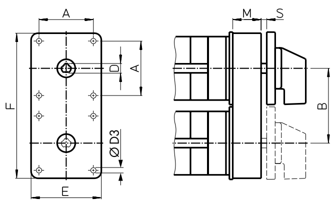
Interlock between switches

Ordering data: Specify interlocking modus

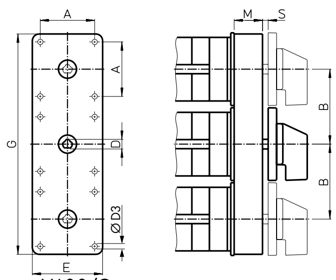
V600/B
V600/C

For 2 switch columns (Size S1 – S3)
For 3 switch columns (Size S1 – S3)

An interlock between 2 oder 3 switch columns permits the operation of one switch only when the other switch or switches are located in a pre-determined switching position. For heavy duty service reinforced devices are available.



V600/B



V600/C

Size	A	B	D	D3	E	F	G	M	S
S1	48	66	8,5	5	62	128	194	23,2	1,4–4,5
S2	68	93	11,2	6	92	183	276	30	1,5–7
S3	88	144	14	7	130	274	418	24	1,5–8,3

Auxiliary contacts

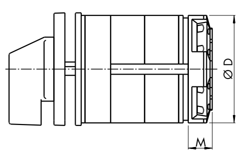
Ordering data: Quantity, operation of the auxiliary contacts and type of contact system.

M510B

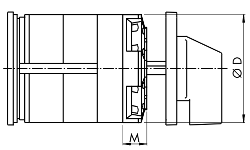
Cam controlled (Size S1 (except CA10B ff.), S2, S3)

These particular type of auxiliary are controlled by a programmable cam. The max. number of Auxiliary contacts for switches of size S1 and S2 is 4 contacts and for switches of size S3 is 6 contacts.
Select between a contact system with a rigid bridge for excellet AC-15 making and breaking capabilities or an H-bridge design with „cross-wire“ contacts (sizes S1 and S2) for low voltage low current. A second contact system with gold or gold plated contacts is available suitable for use in an aggressive (harsh) environment. .
In cases where more than 4 resp. 6 Auxiliary contacts are required, an auxiliary switch should be used alternatively.

Front panel mounting



Base mounting



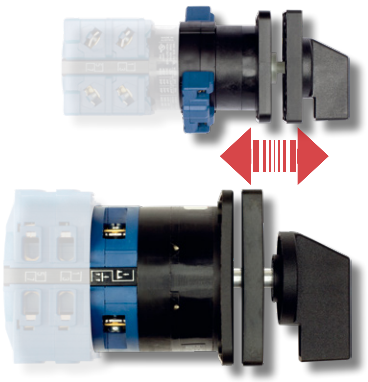
Front panel mounting (Mounting E)		
Size	**M**	**D**
S1	16	64
S2	18,7	84
S3	17	128

Base mounting (Mounting VE)		
Size	**M**	**D**
S1	11,5	64
S2	11,7	84
S3	8	128

Push-pull interlock

Ordering data: Description of the interlocking program, number and operation of the auxiliary contacts.

V110A
V115A
V130A
V135A



To pull lateral spring return (Size S0)
To pull lateral latching (Size S0)
To push lateral spring return (Size S0)
To push lateral latching (Size S0)

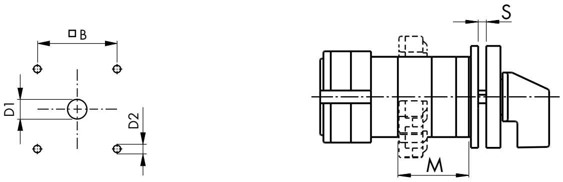
V110
V115
V120
V130
V135

To pull lateral spring return (Size S1 – S3)
To pull lateral latching (Size S1)
To pull an to push lateral spring return (Size S1 – S3)
To push lateral spring return (Size S1 – S3)
To push lateral latching (Size S1)

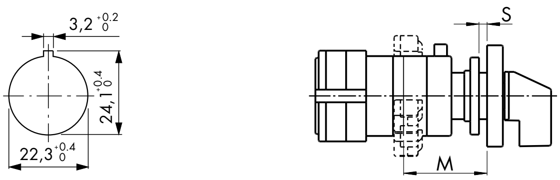
The push-pull device is used to interlock the switch so that the handle can be rotated only when pushed oder pulled. Therefore the can be self-locking or automatically be pulled back axially. The push-pull device can be programmed to allow the interlock to operate only between pre-determined switch positions. Auxiliary contacts can be operated by means of the axial movement of the handle. For switches size S0 the max. number of Auxiliary contacts is 2 contacts, for all other sizes 8 contacts. In addition switches size S0 can also be combined with a trip indicator.

Notice:
For heavy duty service we recommend the alternative use of DK10 series.
See chapter ***„Switches for special use and DC switches"***

V110A – V135A, Four hole mounting **(Size S0)**



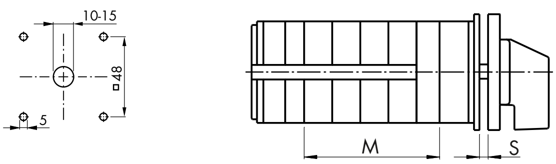
V110A – V135A, Single hole mounting **(Size S0)**



M = Additional length for Push-pull interlock and auxiliary contacts

	Mounting							
	E		EG		FT2		FH3	
	V110A V130A	V115A V135A	V110A V130A	V115A V135A	V110A V130A	V115A V135A	V110A V130A	V115A V135A
M (without auxiliary contact)	17,5	33,5	24,5	40,5	24	40	31	47
M (with auxiliary contact)	33,5	33,5	40,5	40,5	40	40	47	47
S	1 – 2	1 – 2	1 – 2	1 – 2	1 – 6	1 – 6	1 – 6	1 – 6
B	36	36	48	48				
D1	8 – 15	8 – 15	10 – 15	10 – 15				
D2	5	5	5	5				
Size of escutcheon plate	48 x 48	48 x 48	64 x 64	64 x 64	48 x 48	48x 48	64 x 64	64 x 64

V110, V115, V130, V135, Four hole mounting **(Size S1)**

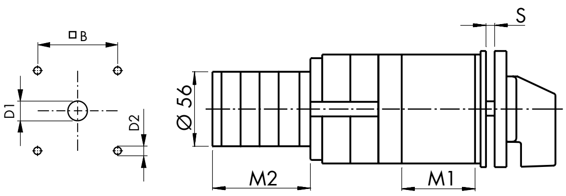


M = Additional length for Push-pull interlock and auxiliary contacts

Size	Number of auxiliary contacts				
	0 – 2	3 – 4	5 – 6	7 – 8	
	M	M	M	M	S
S1[1]	39,9	57,4	74,9	92,4	0 – 4
S1	29,5	47	64,5	82	0 – 4

[1] For Switch type CA..B, CH..B, CG..B

V120, Four hole mounting **(Size S1)**
V110, V120, V130, Four hole mounting **(Size S2 + S3)**



M1 = Additional length for Push-pull interlock
M2 = Additional length for auxiliary contacts

Size	Number of auxiliary contacts				
	0	1 + 2	3 + 4	5 + 6	7 + 8	
	M1	M1 + M2	M1 + M2	M1 + M2	M1 + M2	S
S1[1]	51,7	101,4	120,4	139,4	158,4	0 – 4,5
S2	69	127,6	146,6	165,6	184,6	0 – 5,5
S3	85	151,6	170,5	189,5	208,5	0 – 7

[1] Only V120

Size	B	D1	D2
S1	48	10 – 15	5
S2	68	13 – 17	6
S3	104	15,5 – 20	7

Optional extras

Push button interlock

Ordering data: Number and operation of the auxiliary contacts.

V400/A1

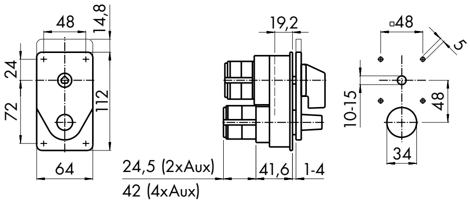
V400/B1

Square escutcheon plate
Switching only possible
if push button is pressed. (Size S1 – S3)

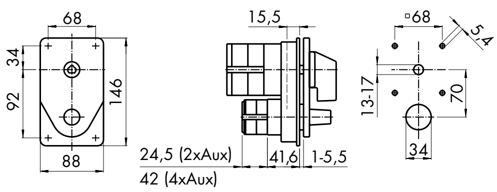
Rectangular escutcheon plate
Switching only possible
if push button is pressed. (Size S1)

Up to 4 auxiliary contacts can be operated by pressing the push button.
No Auxiliary contacts possible for Switch type CA40 – CA63.

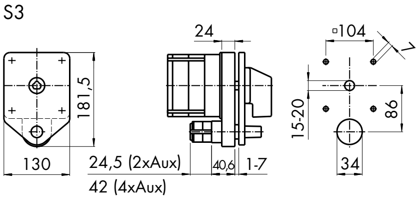
S1



S2



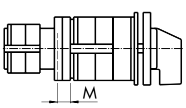
S3



Bayonet/Switch coupling

M270
M275

For switches of the same size (Size S1 – S3)
For switches of different size (Size S0 – S3)



M270

Size front switch	Coupled switch S1	S2	S3
	M	M	M
S0	-	-	-
S1	8,8	-	-
S2	-	12,9	-
S3	-	-	32,9

M275

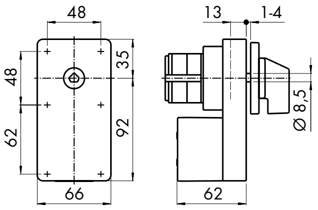
Size front switch	Coupled switch S00	S0	S1	S2
	M	M	M	M
S0	0,0	3,7	-	-
S1	1,3	-1	-	-
S2	10,2	2,6	1,9	-
S3	12,7	10,4	10,4	11,4

Optional extras

Electromechanical interlock

<u>Ordering data:</u> Advise if the interlock is activated either by energizing or de-energizing of the electrical system. Coil voltage also required.

V140

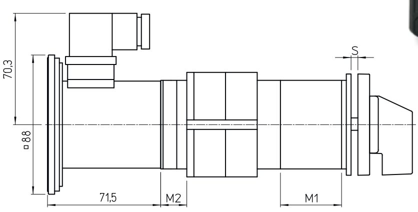


Integrated AC solenoid (Switch size S1)

The switch can be locked in any position by an electromechanical interlock. The interlock device is operated by energizing or de-energizing the electromechanical system. Adding Auxiliary contacts to the switch permits the device to be operated only in pre-determined positions.
Ambient temperature: 35 °C during 24 hours with peaks up to 40 °C
(Switch program CA40 on request)

Major features	
Frequency	50 Hz, 60 Hz, 50/60 Hz
Possible voltage	24 V–600 V
Pull-in power	55 VA/50 Hz oder 70 VA/60 Hz
Holding power	11 W

V140



Baugröße	M 1 + M 2	S
S1	56	0-4
S2	102	0-5,5
S3	111,1	0-7

M1 = Additional length for interlocks
M2 = Additional length for support plate

Solenoid with integrated rectifier (Switch size S1 (except CA10B ff.), S2, S3)

The switch can be locked in any position by an electromechanical interlock. The interlock device is operated by energizing or de-energizing the electromechanical system. Adding Auxiliary contacts to the switch permits the device to be operated only in pre-determined positions.
Ambient temperature: 35 °C during 24 hours with peaks up to 40 °C

Notice: Solenoid not UL approved

Major features	
Dual frequency	50/60 Hz and DC
Possible voltage	24 V, 48V, 60 V, 110 V, 125 V, 230 V and 240 V
Completely encapsulated coil, temperature at the surface of 80-85°C at an ambient temperature of 25°C	
Magnetic force	12 N, Hub 7 mm, on-time 100 %
Weight of solenoid ca.	1 kg
IP-code solenoid	IP65
Max. terminal cross-section	3 x 1,5 mm²
Max. current	1,5 A
Pull-in and holding power 20 W	

S1E.V140.K

Armature cover

For increased safety requirements.
Additional length: 10 mm

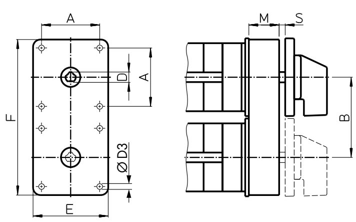
Tandem drive

M300/B
M300/C

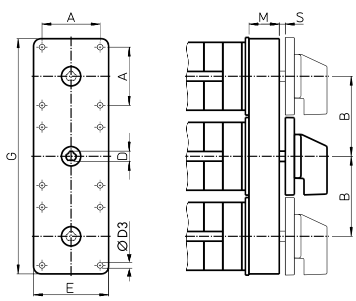
For 2 switch columns (Switch size S1–S3)
For 2 switch columns (Switch size S1–S3)

Two or three switch columns can be operated simultaneously. Special programs are available to reinforce the device for heavy duty applications.
(Switch programs for CA40–CA63 and A-switches On request)

M300/B



M300/C



Size	A	B	D	E	F	G	M	S
S1	48	66	8,5	62	128	194	23,2	1,4–4,5
S2	68	93	11,2	92	183	276	30	1,5–7
S3	88	144	14	130	274	418	24	1,5–8,3

Optional extras

Electromechanical trip device (Shunt-trip)

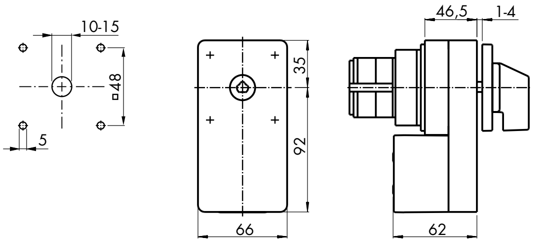
Ordering data:
Operating voltage for the magnetic system.

V360/A

Size S1

The device remote trigger function into trip position. The coil is designed for short-time duty requiring an auxiliary contact in the switch which de-energizes the coil in the trip position.

Controlling of the magnetic system:
24 V to 440 V/50 Hz, 60 Hz or DC



Lockout-relay

Ordering data: Operating voltage and frequency for the magnetic system

Suffix code *M* e. g. CA40M

V340/A

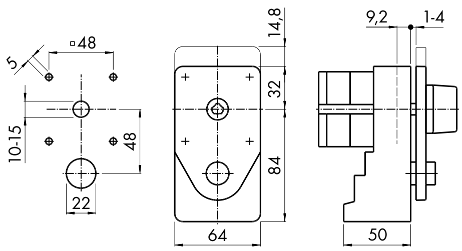
Provides manual release for enabling switching counterclockwise for test purposes.

(Switch programs on request, CA40–CA63 with additional stage)

The lockout-relay is typically used to remotely switch OFF or switch over electrical circuits.

The device contains a totally incapsulated coil and linear spring return mechanism which is compressed by manually turning the handle to the ON position (60°, clockwise to the OFF position). Once in the ON position, the handle is mechanically locked in place and cannot be manually turned back to OFF. Switching counterclockwise is only possible by impulse activating the unlocking device.

Gating Signal:
24 V to 440 V/50 Hz, 60 Hz or DC



Suffix code *L* e. g. CA40L

V340/B

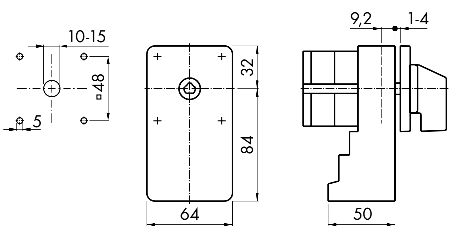
Without manual release

(Switch programs On request, CA40–CA63 with additional stage)

The lockout-relay is typically used to remotely switch OFF or switch over electrical circuits.

The device contains a totally incapsulated coil and linear spring return mechanism which is compressed by manually turning the handle to the ON position (60°, clockwise to the OFF position). Once in the ON position, the handle is mechanically locked in place and cannot be manually turned back to OFF. Switching counterclockwise is only possible by impulse activating the unlocking device.

Gating Signal:
24 V bis 440 V/50 Hz, 60 Hz oder DC



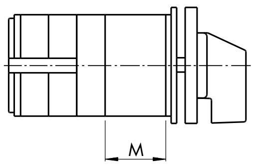
Spring return latching mechanism

Ordering data: Specify spring return from either left or right side for M470.

M470/A
M470

Spring return from both ends (Size S0–S2)
Spring from one end (Size S0 + S1)

The spring return up to 30° switching angle is operated through the latching mechanism. In case of very many contacts being lifted simultaneously or if the total receding angle is more than 30°, the switch is equipped with a spring return latching mechanism. The spring return from both ends can be designed latching positions to one side are feasible. (S1.M470 Mounting EF IP66/67)



Size	M (M470/A)	M (M470)	Shaft hole
S0	33,3	33,3	8–15
S0 (Switches of next larger size e.g. CH10B)	40,3	29,2	18,5
S1	33,3	22,2	18,5
S2	75		13–17

Uni-directional interlock

Ordering data: Specify interlock position

M400

(Size S0–S2 with 360° rotation)

The uni-directional interlock prevents the switch from being operated counterclockwise. The interlock can be designed either in all switch positions or in one particular position.

Slip and ratchet clutch

M200

Slip clutch (Size S0 + S1)

The slip clutch allows to link two camshafts together, one master and one slave camshaft. The here slave camshaft is activated not until the master camshaft reaches a defined turning angle. This clutch i.e. enables the de-energized downshift of switches for pole-switchable motors. Not available for DH-Switches. The additional length is one cam.

Motor drive

R300

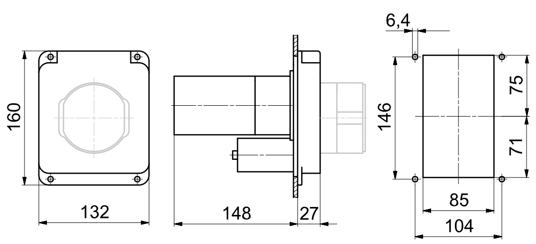
(Size S1 – S3)

The motor drive consists of an AC motor R300 with capacitor, transmission and maltese drive. With this, switches can be operated step by step. The motor can be delivered for operating voltages of 230V, 50Hz or 220V, 60 Hz. Please see separte Datasheet for Drivers.

Ambient temperature: 35 °C over 24 hours with peaks up to 40 °C

Horizontal motor axle

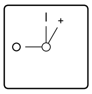
Notice: Motor Drive not UL certified



Optional extras

Main- / Emergency switches with under-voltage release acc. to EN 60204, with trip free release

3 or 4 pole, Four hole panel mounting, IP40

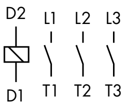


The magnetic system of the under-voltage release is shifting the switch into the release position („+") in case of a voltage drop below 70% of the nominal voltage. This is as well the delivery status.

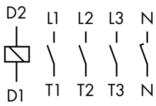
By turning the grip back from the released-position „+" into the On-position („I") the release spring is loaded and remains loaded when switching between On- („I") and OFF-position („0").
As the device includes a free-relase acc. To EN 60947-1, the main contactors remain open in the released-stage even the handle is manually held or blocked in the On position („I")

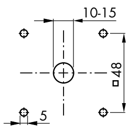
Ambient temperature: 35 °C over 24 hours with peaks up to 40 °C

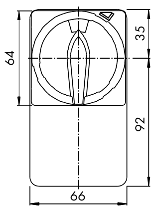
3pole

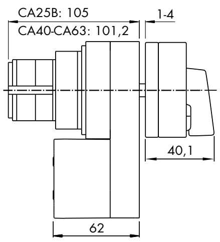


4 pole









Continuous current (I_u/I_{th})	Switching power AC-23B (A) 3 x 400 V	Escutcheon plate	Name Art. no. 3 pole	4 pole
Coil voltage 230 V, 50 Hz				
32 A	15 kW	64 x 64	CA25B.T203/92.E **70037163**	CA25B.T204/92.E **70009617**
40 A	18,5 kW	64 x 64	CA40.T203/82.E **70024754**	CA40.T204/82.E **70049167**
50 A	22 kW	64 x 64	CA50.T203/82.E **70008752**	CA50.T204/82.E **70049170**
63 A	30 kW	64 x 64	CA63.T203/82.E **70008753**	CA63.T204/82.E **70000192**
Coil voltage 400 V, 50 Hz				
32 A	15 kW	64 x 64	CA25B.T203/D-A026.E **70008634**	CA25B.T204/D-A011.E **70022036**
40 A	18,5 kW	64 x 64	CA40.T203/D-A002.E **70046361**	CA40.T204/D-A001.E **70022037**
50 A	22 kW	64 x 64	CA50.T203/D-A001.E **70046362**	CA50.T204/D-A001.E **70022038**
63 A	30 kW	64 x 64	CA63.T203/D-A001.E **70040780**	CA63.T204/D-A003.E **70022039**

Continuous current (I_u/I_{th})	Switching power AC-23B (A) 3 x 400 V	Escutcheon plate	Name Art. no. 3 pole	4 pole
Coil voltage 230 V, 50 Hz				
32 A	15 kW	64 x 64	CA25B.T103/92.E **70010923**	CA25B.T104/92.E **70039973**
40 A	18,5 kW	64 x 64	CA40.T103/82.E **70046363**	CA40.T104/82.E **70049166**
50 A	22 kW	64 x 64	CA50.T103/82.E **70025986**	CA50.T104/82.E **70049169**
63 A	30 kW	64 x 64	CA63.T103/82.E **70026915**	CA63.T104/82.E **70049171**
Coil voltage 400 V, 50 Hz				
32 A	15 kW	64 x 64	CA25B.T103/D-A004.E **70046364**	CA25B.T104/D-A002.E **70022035**
40 A	18,5 kW	64 x 64	CA40.T103/D-A002.E **70045285**	CA40.T104/D-A001.E **70049303**
50 A	22 kW	64 x 64	CA50.T103/D-A001.E **70046366**	CA50.T104/D-A001.E **70049301**
63 A	30 kW	64 x 64	CA63.T103/D-A001.E **70045287**	CA63.T104/D-A001.E **70039114**

60 Hz respectively other coil voltages Upon request (With DC a series resistor is required).

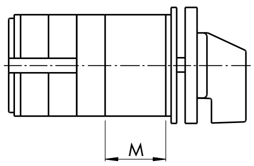
Spring return latching mechanism

Ordering data: Specify spring return from either left or right side for M470.

M470/A
M470

Spring return from both ends (Size S0–S2)
Spring from one end (Size S0 + S1)

The spring return up to 30° switching angle is operated through the latching mechanism. In case of very many contacts being lifted simultaneously or if the total receding angle is more than 30°, the switch is equipped with a spring return latching mechanism. The spring return from both ends can be designed latching positions to one side are feasible. (S1.M470 Mounting EF IP66/67)



Size	M (M470/A)	M (M470)	Shaft hole
S0	33,3	33,3	8–15
S0 (Switches of next larger size e.g. CH10B)	40,3	29,2	18,5
S1	33,3	22,2	18,5
S2	75		13–17

Uni-directional interlock

Ordering data: Specify interlock position

M400

(Size S0–S2 with 360° rotation)

The uni-directional interlock prevents the switch from being operated counterclockwise. The interlock can be designed either in all switch positions or in one particular position.

Slip and ratchet clutch

M200

Slip clutch (Size S0 + S1)

The slip clutch allows to link two camshafts together, one master and one slave camshaft. The here slave camshaft is activated not until the master camshaft reaches a defined turning angle. This clutch i.e. enables the de-energized downshift of switches for pole-switchable motors. Not available for DH-Switches. The additional length is one cam.

Motor drive

R300

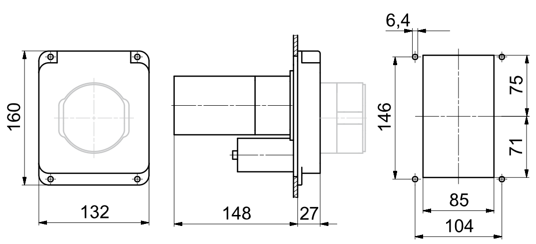
(Size S1 – S3)

The motor drive consists of an AC motor R300 with capacitor, transmission and maltese drive. With this, switches can be operated step by step. The motor can be delivered for operating voltages of 230V, 50Hz or 220V, 60 Hz. Please see separte Datasheet for Drivers.

Ambient temperature: 35 °C over 24 hours with peaks up to 40 °C

Horizontal motor axle

Notice: Motor Drive not UL certified



Optional extras

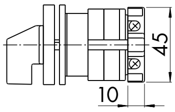
Terminal cover

M160

The protective cover prevents accidental contact with energized terminals. (C80, C125, C315, C316, L400)

Protectiv earth and neutral terminals

2032804 | S0D.H040/E
2032805 | S0D.H040/N
2032806 | S0D.H040/NE



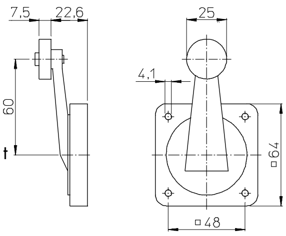
PE terminal (Size S0)
Neutral terminal (Size S0)
PE and neutral terminal (Size S0)

2171337 | S00.H040.S
2032802 | S0D.H040.S

PE terminal (Size S00)
PE terminal (Size S0)

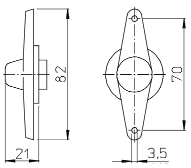
Special drives

G800/B



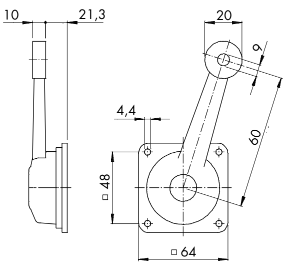
Heavy duty drive unit with actuator and roller (Size S1)

G800/C



Double action lever (Size S1)

G900/B

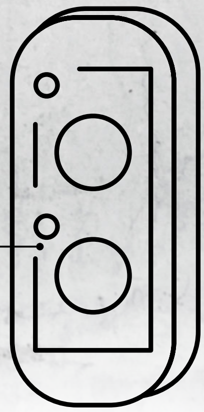


Rope operation available for spring return, maintained or stepping operation. (Size S1)

KN-CONTROLS SWITCH ENCLOSURE

Small Box + lots of technology = functional enclosure

- 10 basic models
- High-quality, robust materials for industrial use
- Variants with pushbuttons, emergency stop function, LED lighting, membrane keypad, piezo push-button
- PLC in display enclosure
- Pre-assembled electronics
- Customisable special solutions



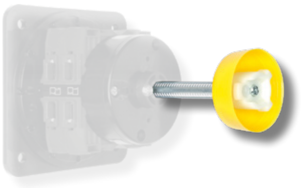
Individual customizations or new concepts possible

Standard door clutch for enclosures

Door clutch with four hole mounting shaft fixation with set skrew

Ordering data:
Total installation depth of switch incl. door clutch.

M280E/.-EF



With shaft extension, IP66/67 front

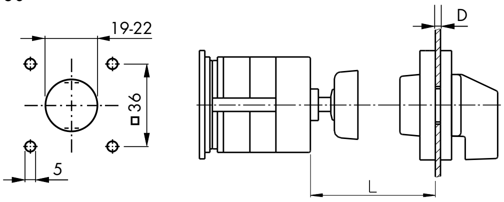
Door clutches of size S1 can be combined with switches of size S0.

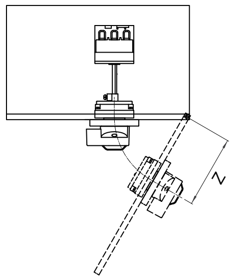
	Type
M280E/ A 2	1 S-EF

A =	without interlocking
B =	with interlocking, standard possible at 9 h or every 90°
	= Dimension L refer scheme below

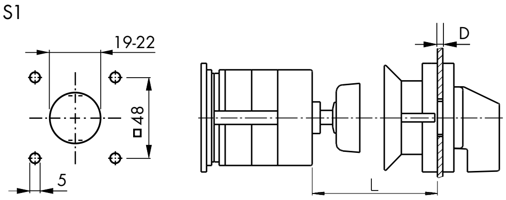
		1	2	3	4	
Size	**D**	**L**	**L**	**L**	**L**	**Z**
S0	4,0	36–55	56–75	76–95	96–116	100
S1	4,0	32–57	58–77	78–97	98–118	100
S2	5,5	60–90	90–120	120–150	150–180	110
S3	7,0	60–95	95–130	130–165	165–200	110

S0

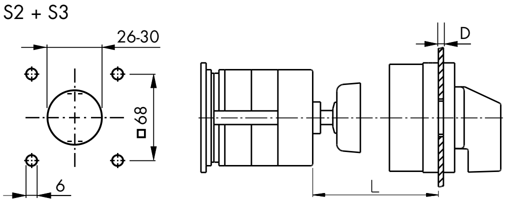




S1



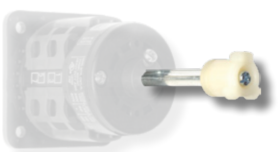
S2 + S3



Door clutch with single hole mounting 22 mm, IP66, without padlock device (Switch size S0+S1) shaft fixation with set skrew

Ordering data:
Total installation depth of switch incl. door clutch.

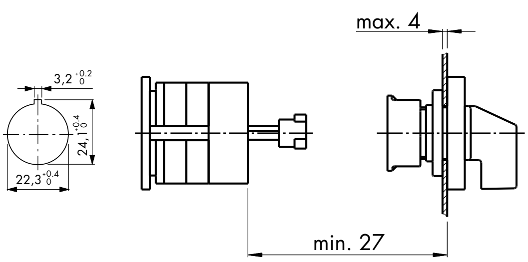
M295/.A



In addition, a shaft extension is required.

	Type
S0.M295/ A A	1 /11

	Escutcheon plate	Escutcheon plate frame	handle
A =	Alu	black	black
B =	Alu	black	red
C =	black	black	black
D =	black	black	red
E =	yellow	black	red
1 =	without interlocking		
2 =	with interlocking, unlocked at 9 h		
3 =	with interlocking, unlocked at 12 h		



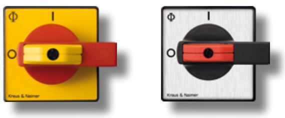
Door clutch for switch cabinets with padlock device

Main switch application upon request

Four hole mounting with padlock device, IP66

Ordering data:
Total installation depth of switch incl. door clutch.

M700/.

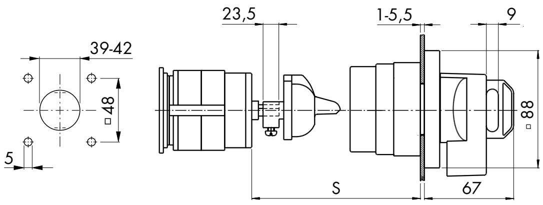


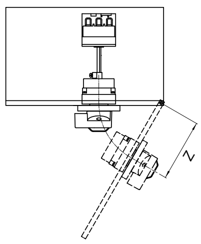
Handle lockable with padlocks (Switch size S0–S3)

Door lock in On-position („I") and with applied Padlock device as well in OFF-position („0"). The door of the switch cabinet can under normal conditions only be opened in OFF-position („0") of the switch. With the attached special tool the locking mechanism can be released in the OFF-position („0"). A maximum of 4 padlocks with a 5 mm diameter or 3 padlocks with a 8 mm diameter can be applied. The door clutch can level an a +/- 5mm OFFset between door clutch and shaft.

Additional shaft extension is required.

Coloring	Escutcheon plate	handle	Lock bar
M700/ A			
A =	brushed Alu	black	red
B =	brushed Alu	red	yellow
C =	brushed black	black	red
D =	brushed black	red	yellow
E =	yellow	red	yellow





Size	Using of shaft	S min	Z
S0	S0.L100/...A	64,5	100
S1	S1.M004D	67	100
S2	S2.M004D	74,5	100
S3	S3.M004D	78	100

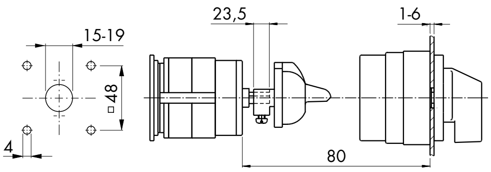
Door clutch for switch cabinets with standard handle

Four hole mounting with standard escutcheon plate and handle, IP66

M701

Door clutch unlocked in OFF-position („0") (Switch size S0–S2)

In addition, a shaft extension is required.



Unlock insert for door clutch M700 + M701

2014491 | S1D.M700.29

To open the door in ON-position („I"). (After door clutch has been removed, effective precautions must be taken to prevent unauthorized persons from opening the switch cabinet.)

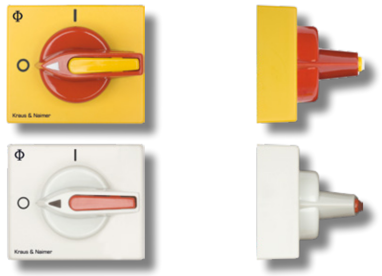
Optional extras

Padlock devices

Main switch application upon request

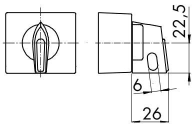
Base mounting 45 mm standard knock-out

V840B



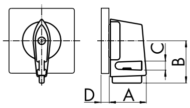
Padlock is an integrated part of the switch handle and can hold 1 padlock (Mounting VE2 and VE21)

Locking bar accessible from the front.
Available colors (handle/cover disc) black/grey, grey/grey, red/grey und red/yellow. Bail diameter max. 2 x 4,5–6 mm



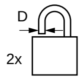
Sealable

V840A



Padlock is an integrated part of the switch handle and can hold 2 padlocks and sealing

Handle available in colors black, red and electro- grey. Cover discs available in colors yellow and brushed alu.
Upon request, the device can be programmed to lock in several switch positions (every 60° or 90°).



Baugröße	B	C	R	D in mm [1, 2]	D in mm [3]
S0 (V840A/A, .../B, .../E)	31,5	5	32,9	3,5–4,5	
S0 (V840A/C, .../D, .../F)	31,5	5	32,9	3,0–4,0	
S1	40	7	41,6	4,0–6,0	–

[1] Front panel mounting + Cast enclosure | [2] Plastic enclosures + Mounting VE2 and VE21 | [3] Single hole mounting

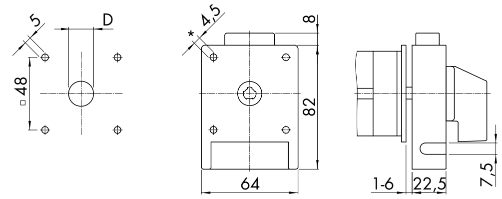
Push button top

V850/A

For 2 padlocks (Switch size S0 + S1)
For 3 padlocks (Switch size S1 + S2)
For 6 padlocks (Switch size S2 + S3)

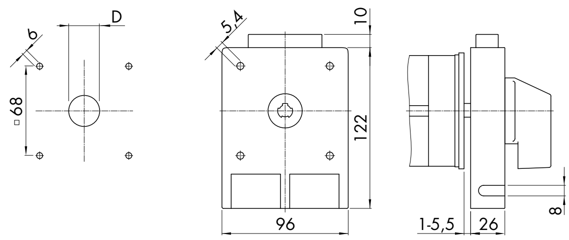
Upon request, the device can be programmed to lock in several switch positions (every 30°).

S1



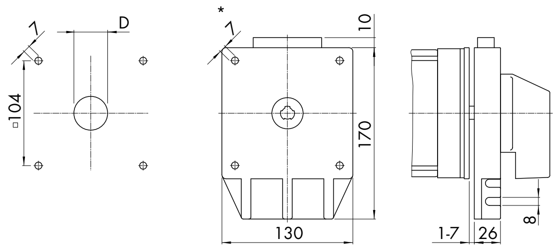
Maximum number of padlocks	
Bail-∅	Number of padlocks
3–5,5	2

S2



Maximum number of padlocks	
Bail-∅	Number of padlocks
4–7,5	3

S3

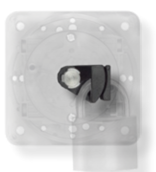


Maximum number of padlocks	
Bail-∅	Number of padlocks
4–7,5	6

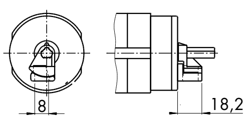
For 2 padlocks	D
S1.V850/.1	10-15
S1.V850/.11	8-15
S1.V850/.12	10-15
S1.V850/.13	19-22
For 3 padlocks	
S2.V850/.1	26-30
S2.V850/.11	10-15
S2.V850/.12	26-30
S2.V850/.13	26-30
For 6 padlocks	
S3.V850/.1	15,5-20
S3.V850/.11	26-30
S3.V850/.12	15,5-20
S3.V850/.13	22-25

Switch-side

K3B.V840VE



To mount a padlock when the switch cabinet is open (Size S2)

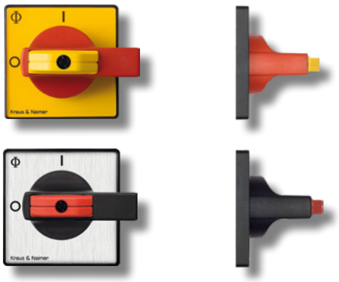


Padlock devices

Main switch application Upon request

T-handle

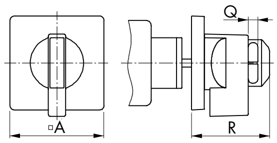
V845



For 4 padlocks (Locking bar accessible from the front.)

Handle is available in black or red, escutcheon plate in yellow and brushed Alu.
Upon request, the device can be programmed to lock in several switch positions.

Size	A	R	Q
S0	48	51	7,2
S1	64	58	8,1
S2	88	73	9
S3	130	86,5	9



Maximum number of padlocks		
Escutcheon plate	**Bail-∅**	**Number of padlocks**
48 x 48	7	2
	3	4
64 x 64	7,5	3
	4	4
88 x 88	4–8	2–4
130 x 130	4–8,5	2–4

F-handle

V840D

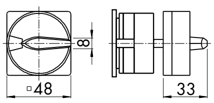
For 2 padlocks Size S0 (48 x 48)
For 3 padlocks Size S2 (88 x 88)

V840G
V840F/F

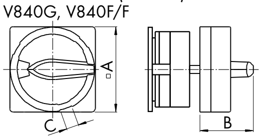
For 3 padlocks Size S1 (64 x 64)
For 4 padlocks Size S1 (64 x 64)

Padlock device with integrated F-handle.
Handles are available in black, red and electro-grey, cover discs in black, yellow and electro-grey.

V840D Size S0 (48 x 48)



V840D Size S2 (88 x 88)
V840G, V840F/F

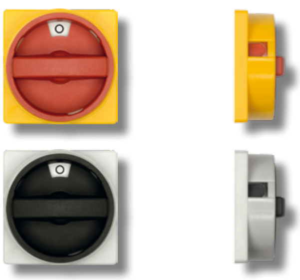


	A	B	C
V840D	88	49,3	10
V840G	64	40,1	9,2
V840F/F	64	40,1	9,2

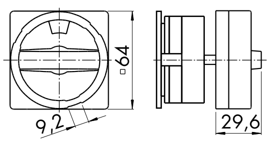
B-handle

V840G/B
V840F/B

For 3 padlocks Size S1 (64 x 64)
For 4 padlocks Size S1 (64 x 64)



Padlock device with integrated B-handle.
Handles are available in black, red and electro-grey, cover discs in black, yellow and electro-grey.

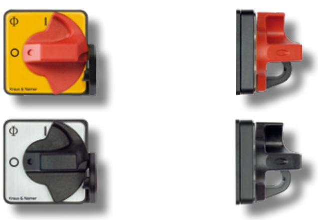


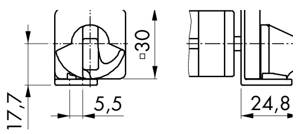
Smallest padlock device

V840K

For 1 padlock Size S00 (Bail diameter 3,5–5 mm)

2-hole panel and single hole mounting 22 mm (16 mm not possible).
Handles are available in red and black, cover discs in yellow and electro-grey.





Terminal lugs

M900

With screw terminal (C80 + C125)

Makes it easier to connect hard-to-reach terminals.
Generally all X-, L-switches and switches of series C315 and C316 will be delivered with terminal lugs.

M930

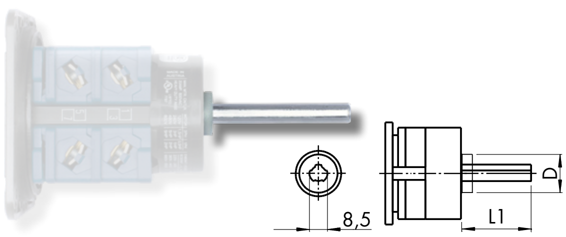
To connect with a push-on contact
(CA4, CH6/B, CH10/B, CH16/B, DH10/B, DH12/B)

On each plug connection can be plugged one push-on contact with 6.3 mm or two with 2.8 mm. Switch type CA4 only can be plugged one 2.8 mm push-on contact.

Shaft extensions with asymetric profile

Ordering data: Length of shaft or enclosure or rather switch cabinets.

L100



Shaft not adjustable (Size S0 + S1) Escutcheon plate/handle size S1

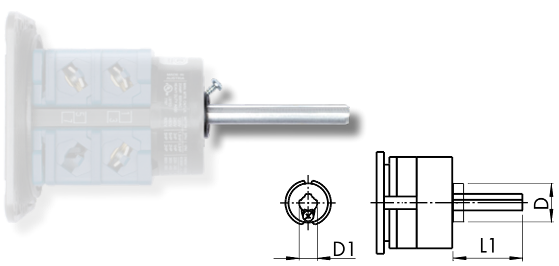
Size	E/EF	KN1/KD1	KD2	VE
S0	L1–2,3	L1–5,1	–	L1
S1	L1–2,5	–	L1–2,5	L1

Size	D
S0	13,8
S1	18,5

Size	L1	L1	L1	L1	L1	L1	L1	L1	L1
S0	19	24	28	32	37	42	47	52	57
S1	19,8	23,8	27,8	32,8	37,8	42,8	47,8	52,8	57,8

Size	L1	L1	L1	L1	L1	L1	L1	L1	L1
S0	62	67	72	77	82	87	92	97	102
S1	62,8	67,8	72,8	77,8	82,8	87,8	92,8	97,8	102,8

M004D



Unlimited adjustable, with set screw (Size S0 – S3)

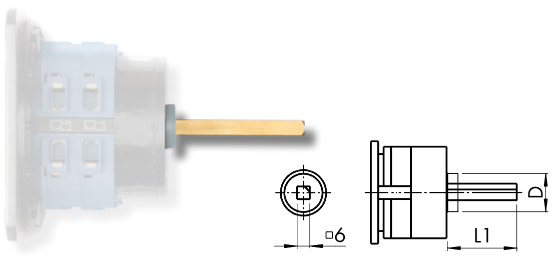
Adjustable shaft can be set to the desired length in a pre-mounted switch with VE Mounting plate.

Size	D	D1	L1	L1	L1	L1
S0	13,8	6	21–40	41–60	61–80	81–100
S1	18,5	8,5	21–40	41–60	61–80	81–100
S2	24,6	11,2	41–70	71–100	101–130	131–160
S3	35,1	14	41–75	76–110	111–145	146–180

Shaft extensions with square profile

Ordering data: Length of shaft or enclosure or rather switch cabinets.

L100A

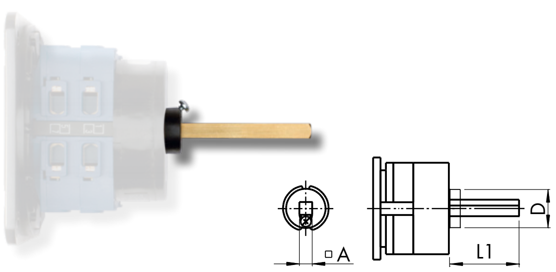


Shaft not adjustable (Size S0 + S1) Escutcheon plate/handle size S1

Size	D
S0	13,8
S1	18,5

Size	L1
S0, S1	19–27 (in 4 mm increments)
S0, S1	32–117 (in 5 mm increments)

M004E



Unlimited adjustable, with set screw (Size S1 – S3)

Adjustable shaft can be set to the desired length in a pre-mounted switch with VE Mounting plate.

Size	A	D	L1	L1	L1	L1
S1	6	18,5	21–40	41–60	61–80	81–100
S2	8	24,6	41–70	71–100	101–130	131–160
S3	10	35,1	41–75	76–110	111–145	146–180

Protective cover Ø 74 mm (incl. holding frame), IP42

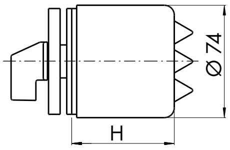
2232094 | S0.M999/D-760S
2234144 | S0.M999/D-780S

black
Two or Four hole panel as well as single hole mounting

	CH10, CH11, CH16	CA10, CA11, CAD11, DH10, DH11	CA20, CA25	KG10A	Name	Art. no.
H	E, EF, E22, EG, EGF, FT1, FT2, FT3, FT4, FT6 Number of stages					
60	1–2	1–4	1–3	1–3	S0.M999/D-760S	**2232094**
80	3–6	5–6	4	4	S0.M999/D-780S	**2234144**

2232095 | S1.M999/D-760S
2232796 | S1.M999/D-780S

	CH10B, CH11B, CH16B	CA10B, CA11B, CAD11B, DH10B, DH11B	CA20B, CA25B	KG10B	Name	Art. no.
H	E, EF, E22 Fluchtenzahl					
60	1–2	1–4	1–3	1–3	S1.M999/D-760S	**2232095**
80	3–4	5–6	4	4	S1.M999/D-780S	**2232796**



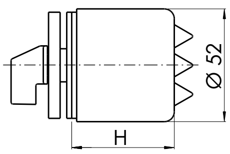
Ordering example:
CA10.A202.E
S0.M999/D-760S

Protective cover Ø 52 mm (incl. holding frame), IP30

2232109 | S0.M999/D-546T
2232804 | S0.M999/D-562T
2232526 | S0.M999/D-576T

transparent
Two or Four hole panel as well as single hole mounting

	CA10, CA11, CAD11	Name	Art. no.
H	E, EF, E22, EG, EGF, FT1, FT2, FT3, FT4, FT6 Number of stages		
46	1–2	S0.M999/D-546T	**2232109**
62	3–4	S0.M999/D-562T	**2232804**
76	5	S0.M999/D-576T	**2232526**



Ordering example:
CA10.A202.E
S0.M999/D-546T

Optional extras

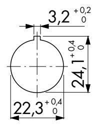
Accessory single hole mounting

Nut key for mounting screw,
Single hole mounting 16, 22 and 30 mm

2005361 | S00.T170.09

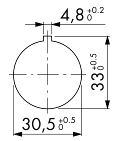
Adapter ring for single hole mounting
16 mm up to Ø 22 mm

2005361 | S00.T160.01



Adaptor ring for single hole mounting
22 mm to Ø 30 mm

2010455 | S0E.T160.01



Mounting screw for 5 – 8 mm switch panel, 22 mm

2010475 | S0E.T170.09

Metal ring to incrase the key recess, 22 mm

2014926 | S1D.V844.05

Mounting screws

Usually included in package content

Self-tapping screws 4,7x13

2015269 | S1E.T100.N 4-pack
2015266 | S1E.T100.10 1 piece

For higher wall thickness

Self-tapping screws 4,7x19

2015268 | S1E.T100.11 1 piece

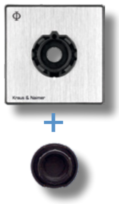
Self-tapping screws 4,7x30

2217118 | S1E.T100.13 1 piece

Optional extras

Blank cover

For four hole mounting (drill hole pattern 36 x 36). Order both items.



2025705 | S0.F990/A1B.PEL — **Face plate ungraved incl. frame**

2005791 | S0C.F000.36 — **Cover for face plate**
(available in black)

For single hole mounting 22 mm

5000735 | P.SN/B — **Grey, RAL 7035**

5000723 | P.SB/B — **Black, RAL 9005**

For handle fixing screw

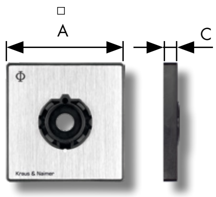
2005822 | S0C.G000.11	**Black for handle** **and**	**S0C.G251** **S0C.G521**
2005823 | S0C.G000.12	**Red for handle** **and**	**S0C.G252** **S0C.G522**
2005827 | S0C.G000.31	**Black for handle** **and**	**S1B.G251** **S1B.G521**
2005828 | S0C.G000.32	**Red for handle** **and**	**S1B.G252** **S1B.G522**

Optional extras

Escutcheon plate

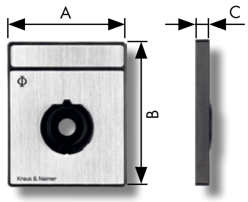
The escutcheon plate consists of an escutcheon plate frame and Face plate (brushed Alu).

square escutcheon plate



Size	Mounting	A	C
S00	E	30	5,5
	FS2	30	7,2
S0	E	48	6,7
	FT2	48	7,4
S1	E	64	7,4
	FH3	64	7,4
S2	E	88	8,5
	EL2	88	5,8
S3	E	130	11,5

rectangular escutcheon plate



Size	Mounting	A	B	C
S00	E	30	39	5,5
	FS2	30	39	7,2
S0	E	48	59	6,7
	FT2	48	59	7,4
S1	E	64	78,5	7,4
	FH3	64	78,5	7,4
S2	E	88	124	8,5
	EL2	88	124	5,8
S3	E	130	180	11,5

Size	4-hole mounting: square escutcheon plate (incl. Face plate) (F... = Selection of escutcheon plate lettering on these two pages)	4-hole mounting: square face plate	4-hole mounting: square escutcheon plate frame	4-hole mounting: rectangular escutcheon plate frame	Single hole mounting: square face plate (F... = Selection of escutcheon plate lettering on these two pages)
S00	S00.F.../A1B-PE	S00.F.../A10-P1	S00.F000.51	S00.F000.61	S00.F.../A10-E1
S0	S0.F.../A1B-PEL	S0.F.../A10-P1L	S0E.F000.51	S0E.F000.61	S0.F.../A10-E1L
S1	S1.F.../A1B-PEL	S1.F.../A10-P1L	S1E.F000.51	S1E.F000.61	S1.F.../A10-E1L
S2	S2.F.../A1B-PEL	S2.F.../A10-P1L	S2E.F000.51	-	-
S3	S3.F.../A1B-PEL	S3.F.../A10-P1L	S3E.F000.51	-	-

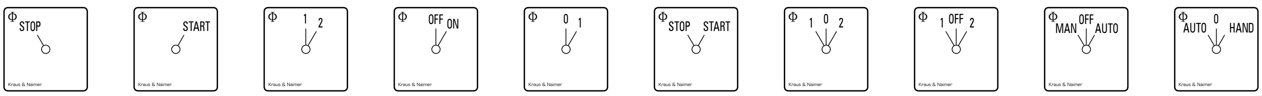
Rectangular face plates

Size	Inscription front side: Name	Inscription front side: Art. no.	Inscription rear side: Name	Inscription rear side: Art. no.
S00	S00.F991/A00/C.P2B	**2004820**	S00.F991/A00.P2B	**2004817**
S0	S0.F991/A00/C.P2B	**2003430**	S0.F991/A00.P2B	**2003421**
S1	S1.F991/A00/C.P2B	**2011832**	S1.F991/A00.P2B	**2011821**

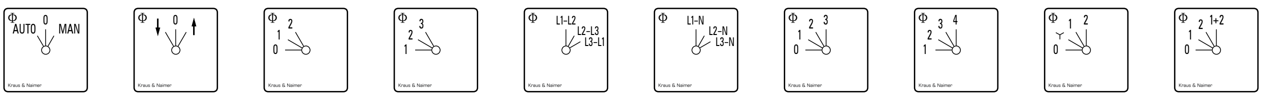
Standard escutcheon plate letterings

Individual engravings possible. Please use **"Form for customized escutcheon plates"on chapter** ***Useful information***.

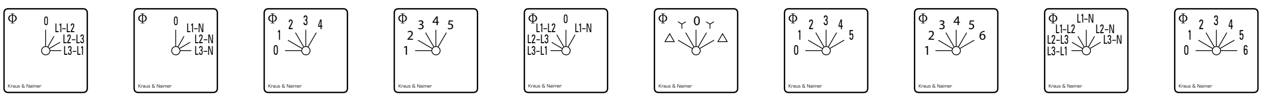
Switching angle 30°



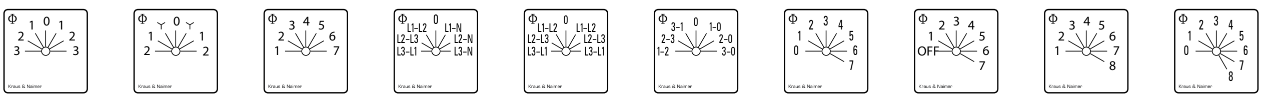
F022 | F023 | F026 | F153 | F169 | F024 | F025 | F034 | F039 | F258



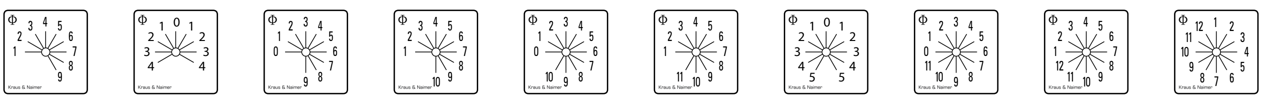
F259 | F273 | F053 | F161 | F306 | F307 | F001 | F052 | F229 | F355



F301 | F302 | F002 | F055 | F305 | F054 | F003 | F138 | F308 | F004



F014 | F017 | F135 | F303 | F304 | F348 | F005 | F044 | F136 | F006



F010 | F015 | F007 | F011 | F008 | F012 | F016 | F009 | F013 | F748

Standardized escutcheon plate letterings

Individual engravings possible. Please use **"Form for customized escutcheon plates"on chapter** ***Interesting facts***

Switching angle 45°

F747	F215	F216	F738	F793	F107	F109	F217	F289	F330
F375	F376	F383	F778	F781	F105	F108	F112	F293	F741
F791	F795	F110	F106	F294	F785	F788	F111	F322	

Switching angle 60°

F070	F088	F197	F379	F380	F470	F754	F072	F234	F264
F288	F291	F313	F382	F721	F758	F075	F076	F356	F357
F071	F073	F080	F081	F085	F241	F249	F260	F274	F312
F316	F324	F331	F354	F364	F373	F381	F385	F469	F732
F735	F077	F102	F309	F361	F362	F363	F365	F366	F078
F074	F082	F256	F079	F083	F084	F242	F283	F737	

Switching angle 90°

F056	F063	F068	F134	F251	F456	F058	F069	F182	F208
F254	F360	F458	F700	F743	F057	F061	F209	F437	F445
F719	F059	F060	F062	F202	F206	F265	F266	F718	F756

Diverse

F119	F122	F125	F225	F341	F120	F124	F121	F990	F991

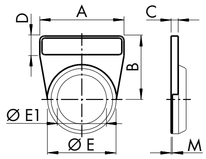
Optional extras

Rectangular add-on face plates

When used for switches with single hole mounting, the IP is reduced to IP42.

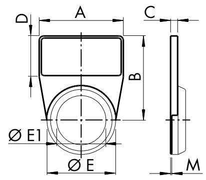
Face plates can be engraved or printed front or rear side. Two different height are available. The escutcheon plate frame is black, the face plate brushed alu. For switches of size S0-S3 are yellow face plates available.

For switches with single hole mounting 16, 22 und 30 mm and front ring



Size	Inscription front side Name	Art. no.	Inscription rear side Name	Art. no.	Frame without face plate Name	Art. no.
S00	S00.F991/A0B/C.PRD	**2030968**	S00.F991/A0B.PRD	**2030962**	S00.F000.41	**2004240**
S0	S0.F991/A0B/C.PRD	**2026025**	S0.F991/A0B.PRD	**2026017**	S0C.F000.41	**2005793**

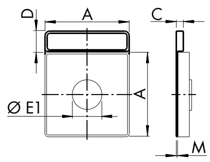
Size	A	B	C	D	E	E1	M
S00	30	25,5	4	10,5	29,5	16	0,7
S0	48	36	4	12	39	22	0,7



Size	Inscription front side Name	Art. no.	Inscription rear side Name	Art. no.	Frame without face plate Name	Art. no.
S00	S00.F991/A0B/C.PRB	**2030966**	S00.F991/A0B.PRB	**2030960**	S00.F000.21	**2004234**
S0	S0.F991/A0B/C.PRB	**2026022**	S0.F991/A0B.PRB	**2026014**	S0C.F000.21	**2005785**

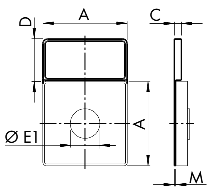
Size	A	B	C	D	E	E1	M
S00	30	35	4	20	29,5	16	0,7
S0	48	48	4	24	39	22	0,7

For switches with four hole and single hole mounting 16, 22 und 30 mm and square escutcheon plate



Size	Inscription front side Name	Art. no.	Inscription rear side Name	Art. no.	Frame without face plate Name	Art. no.
S00	S00.F991/A0B/C.PRC	**2030967**	S00.F991/A0B.PRC	**2030961**	S00.F000.31	**2004237**
S0	S0.F991/A0B/C.PRC	**2026023**	S0.F991/A0B.PRC	**2026015**	S0C.F000.31	**2005788**
S1	S1.F991/A0B/C.PRC	**2039905**	S1.F991/A0B.PRC	**2039902**	S1D.F000.31	**2014012**

Size	A	C	D	E1	M
S00	30	4	10,5	16	0,7
S0	48	4	12	22	0,7
S1	64	5	15	22/39,7	0,8



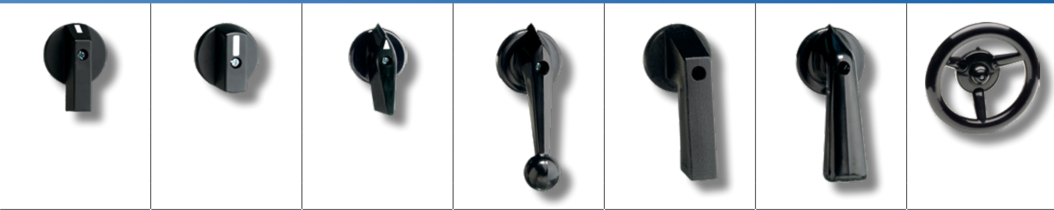
Size	Inscription front side Name	Art. no.	Inscription rear side Name	Art. no.	Frame without face plate Name	Art. no.
S00	S00.F991/A0B/C.PRA	**2030965**	S00.F991/A0B.PRA	**2030959**	S00.F000.11	**2004231**
S0	S0.F991/A0B/C.PRA	**2026020**	S0.F991/A0B.PRA	**2026013**	S0C.F000.11	**2005782**
S1	S1.F991/A0B/C.PRA	**2039904**	S1.F991/A0B.PRA	**2039901**	S1D.F000.11	**2014010**
S2	S2.F991/A0B/C.PRA	**2049855**	S2.F991/A0B.PRA	**2049854**	S2D.F000.11	**2016263**
S3	-	**-**	S3.F991/A0B.PRA	**2052542**	S3D.F000.11	**2017549**

Size	A	C	D	E1	M
S00	30	4	20	16	0,7
S0	48	4	24	22	0,7
S1	64	5	28	22/39,7	0,8
S2	88	6	36	39,7	1
S3	130	7	50	39,7	1,2

Face plate brushed alu

Size	Inscription front side Name	Art. no.	Inscription rear side Name	Art. no.
S00	S00.F991/A00/C.P2B	**2004820**	S00.F991/A00.P2B	**2004817**
S0	S0.F991/A00/C.P2B	**2003430**	S0.F991/A00.P2B	**2003421**
S1	S1.F991/A00/C.P2B	**2011832**	S1.F991/A00.P2B	**2011821**
S00	S00.F991/A00/C.P2A	**2004819**	S00.F991/A00.P2A	**2004816**
S0	S0.F991/A00/C.P2A	**2003429**	S0.F991/A00.P2A	**2003420**
S1	S1.F991/A00/C.P2A	**2011831**	S1.F991/A00.P2A	**2011820**
S2	S2.F991/A00/C.P2A	**2015528**	S2.F991/A00.P2A	**2015527**
S3	-	**-**	S3.F991/A00.P2A	**2016911**

Handle

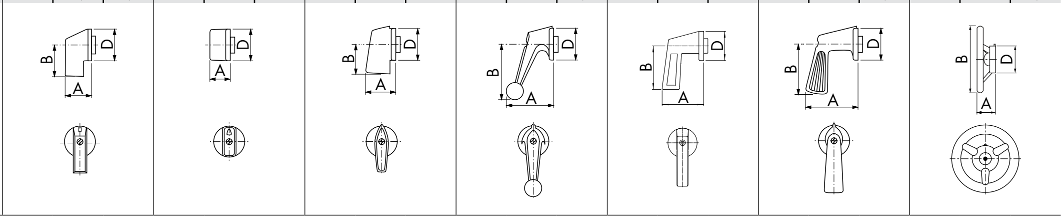


Type of handle	I-handle	B-handle	F-handle	K-handle	P-handle	P-handle	Handwheel

Ordering example: S0C.G521 (black B-handle size S0)

Switch size	Art. no.	Art. no. for color													
		black	red	black	red	black	red	black	red	black	red	black	red	black	red
S00	S00 ...	G251	G252	-	-	G221	G222	-	-	-	-	-	-	-	-
S0	S0C ...	G251	G252	G521	G522	G221	G222	-	-	G211	G212	-	-	-	-
S1	S1B ...	G251	G252	G521	G522	G221	G222	G411	G412	-	-	G211	G212	-	-
S2	S2B ...	G251	G252	-	-	G221	G222	G411	G412	-	-	G211	G212	-	-
S3	S3B ...	G251	G252	-	-	-	-	G411	G412	-	-	G211	G212	G971	-

Size	A	B	D	A	B	D	A	B	D	A	B	D	A	B	D	A	B	D	A	B	D
S00	16,5	14,8	16	-	-	-	16	18	16	-	-	-	-	-	-	-	-	-	-	-	-
S0	22	23,8	27,6	18	-	27,6	26	26	27,6	-	-	-	39,2	41	27,6	-	-	-	-	-	-
S1	27	31,8	36	23	-	36	33,8	34	36	54	64	36	-	-	-	58	57,5	36	-	-	-
S2	35	43,8	50	-	-	-	44,7	45	50	55	83	50	-	-	-	70	68	50	-	-	-
S3	49	64,8	77,5	-	-	-	-	-	-	75	106	77,6	-	-	-	81	85	77,6	55	200	79,5

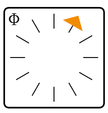
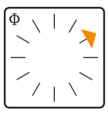
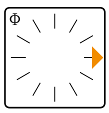
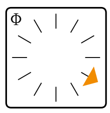
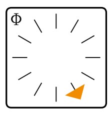
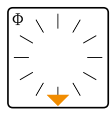
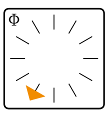
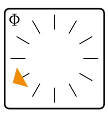
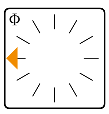
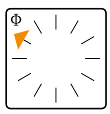
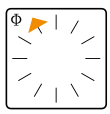
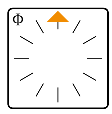


Change of switch program by axial OFFset

Face plate with customized lettering must be specified.

Standard

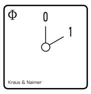
for example with M999/470

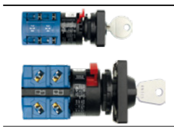
					
M999/461	M999/462	M999/463	M999/464	M999/465	M999/466
					
M999/467	M999/468	M999/469	M999/470	M999/471	M999/472

Complete items

	2-hole mounting (CG4) **4-hole mounting** (CH10)	**Single hole mounting, IP66** 16/22 mm (CG4), 22 mm (CH10)
		

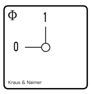
ON/OFF switch, 60° switching angle — 0–1





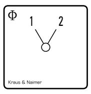
I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
10 A	1	1	143	CG4.A200.E	**70011635**	CG4.A200.FS2	**70000019**
20 A			143	CH10.A200.E	**70012755**	CH10.A200.FT2	**70011736**
10 A	2	1	143	CG4.A201.E	**70010535**	CG4.A201.FS2	**70008399**
20 A			143	CH10.A201.E	**70012756**	CH10.A201.FT2	**70008304**
10 A	3	2	143	CG4.A202.E	**70018642**	CG4.A202.FS2	**70008365**
20 A			143	CH10.A202.E	**70012757**	CH10.A202.FT2	**70011685**
10 A	4	2	143	CG4.A203.E	**70018643**	CG4.A203.FS2	**70000056**
20 A			143	CH10.A203.E	**70012758**	CH10.A203.FT2	**70011735**
10 A	6	3	143	CG4.A342.E	**70012413**	CG4.A342.FS2	**70012415**
20 A			143	CH10.A342.E	**70015129**	CH10.A342.FT2	**70015135**
10 A	1	1	143	–	–	CG4.A200.*FS2.DE21	**70029437**
20 A			143	–	–	CH10.A200.*FT2.DE21	**70029390**

ON/OFF switch, 90° switching angle — 0–1



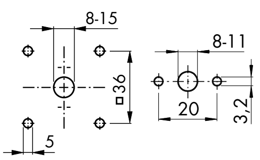
I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
10 A	1	1	143	CG4.A290.E	**70008670**	CG4.A290.FS2	**70008344**
20 A			143	CH10.A290.E	**70014975**	CH10.A290.FT2	**70014981**
10 A	2	1	143	CG4.A291.E	**70009723**	CG4.A291.FS2	**70011795**
20 A			143	CH10.A291.E	**70014993**	CH10.A291.FT2	**70014999**
10 A	3	2	143	CG4.A292.E	**70012329**	CG4.A292.FS2	**70012332**
20 A			143	CH10.A292.E	**70015016**	CH10.A292.FT2	**70015022**

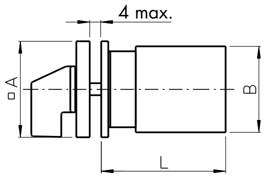
Double-throw switch without OFF-position („0"), 60° switching angle — 1–2



I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
10 A	1	1	143	CG4.A220.E	**70009961**	CG4.A220.FS2	**70000127**
20 A			143	CH10.A220.E	**70014350**	CH10.A220.FT2	**70010252**
10 A	2	2	143	CG4.A221.E	**70008496**	CG4.A221.FS2	**70008404**
20 A			143	CH10.A221.E	**70011398**	CH10.A221.FT2	**70010569**
10 A	3	3	143	CG4.A222.E	**70012057**	CG4.A222.FS2	**70009369**
20 A			143	CH10.A222.E	**70012763**	CH10.A222.FT2	**70008922**
10 A	4	4	143	CG4.A223.E	**70008497**	CG4.A223.FS2	**70009143**
20 A			143	CH10.A223.E	**70010836**	CH10.A223.FT2	**70010962**
10 A	5	5	143	CG4.A369.E	**70009158**	CG4.A369.FS2	**70008315**
20 A			143	CH10.A369.E	**70015187**	CH10.A369.FT2	**70010110**
10 A	6	6	143	CG4.A370.E	**70012456**	CG4.A370.FS2	**70009182**
20 A			143	CH10.A370.E	**70015201**	CH10.A370.FT2	**70011407**
10 A	1	1	143	–	–	CG4.A220.*FS2.DE21	**70029433**
20 A			143	–	–	CH10.A220.*FT2.DE21	**70029376**
10 A	2	2	143	–	–	CG4.A221.*FS2.DE21	**70029431**
20 A			143	–	–	CH10.A221.*FT2.DE21	**70029374**

4-/2-hole mounting

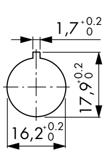




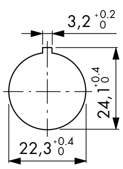
Type	A	B	C	M	L (Stages) 1	2	3	4	5	6
CG4	30	28	5	12,5	38,5	50,5	62,5	74,5	86,5	98,5
CH10	48	46	6	18,2	43,5	57,5	71,5	85,5	99,5	113,5

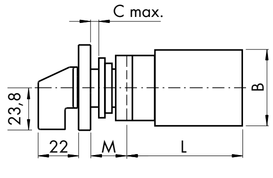
Single hole mounting, IP66

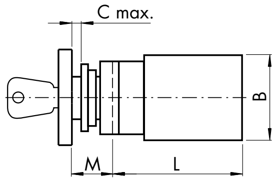
CG4



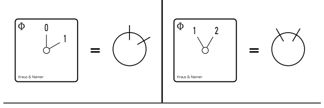
CG4/CH10







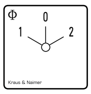
Position to remove the key



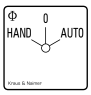
Complete items

	2-hole mounting (CG4) **4-hole mounting** (CH10)	**Single hole mounting, IP66** 16/22 mm (CG4), 22 mm (CH10)
		

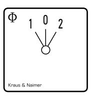
Double-throw switch with OFF-position („0“), 60° switching angle — 1-0-2

	I_u/I_{th}	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	1	145	CG4.A210.E	**70009487**	CG4.A210.FS2	**70000046**
	20 A			145	CH10.A210.E	**70012759**	CH10.A210.FT2	**70009145**
	10 A	2	2	145	CG4.A211.E	**70010329**	CG4.A211.FS2	**70008514**
	20 A			145	CH10.A211.E	**70012760**	CH10.A211.FT2	**70011070**
	10 A	3	3	145	CG4.A212.E	**70008539**	CG4.A212.FS2	**70008269**
	20 A			145	CH10.A212.E	**70012761**	CH10.A212.FT2	**70008886**
	10 A	4	4	145	CG4.A213.E	**70011960**	CG4.A213.FS2	**70011421**
	20 A			145	CH10.A213.E	**70020666**	CH10.A213.FT2	**70011833**
	10 A	1	1	145	–	**-**	CG4.A210.*FS2.DE21	**70034452**
	20 A			145	–	**-**	CH10.A210.*FT2.DE21	**70029387**
	10 A	2	2	145	–	**-**	CG4.A211.*FS2.DE21	**70034453**
	20 A			145	–	**-**	CH10.A211.*FT2.DE213	**70049311**

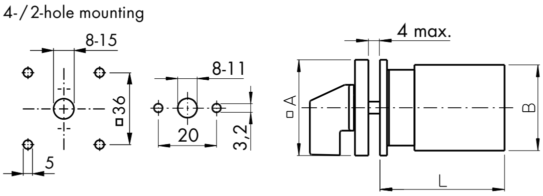
Double-throw switch with OFF-position („0“), 60° switching angle — HAND-0-AUTO

	I_u/I_{th}	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	1	145	CG4.A210.E.F085	**70009075**	CG4.A210.FS2.F085	**70000112**
	20 A			145	CH10.A210.E.F085	**70009111**	CH10.A210.FT2.F085	**70009121**
	10 A	2	2	145	CG4.A211.E.F085	**70008405**	CG4.A211.FS2.F085	**70008530**
	20 A			145	CH10.A211.E.F085	**70009112**	CH10.A211.FT2.F085	**70009122**
	10 A	3	3	145	CG4.A212.E.F085	**70009076**	CG4.A212.FS2.F085	**70029900**
	20 A			145	CH10.A212.E.F085	**70009113**	CH10.A212.FT2.F085	**70012461**

Double-throw switch with OFF-position („0“), 30° switching angle (spring return to center) — 1-0-2

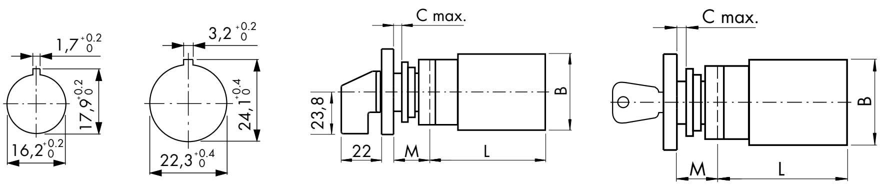
	I_u/I_{th}	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	1	145	CG4.A214.E	**70009136**	CG4.A214.FS2	**70009378**
	20 A			145	CH10.A214.E	**70012762**	CH10.A214.FT2	**70009520**
	10 A	2	2	145	CG4.A215.E	**70011985**	CG4.A215.FS2	**70011411**
	20 A			145	CH10.A215.E	**70014574**	CH10.A215.FT2	**70011856**
	10 A	3	3	145	CG4.A216.E	**70009287**	CG4.A216.FS2	**70009368**
	20 A			145	CH10.A216.E	**70014593**	CH10.A216.FT2	**70011465**

4-/2-hole mounting

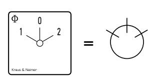


Type	A	B	C	M	L (Stages) 1	2	3	4
CG4	30	28	5	12,5	38,5	50,5	62,5	74,5
CH10	48	46	6	18,2	43,5	57,5	71,5	85,5

Single hole mounting, IP66
CG4 CG4/CH10



Position to remove the key



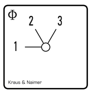
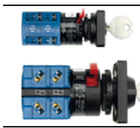
Complete items

CONTROL SWITCHES AND LOAD SWITCHES

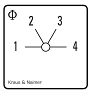
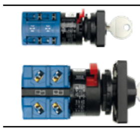
Complete items

	2-hole mounting (CG4) 4-hole mounting (CH10)	Single hole mounting, IP66 16/22 mm (CG4), 22 mm (CH10)
		

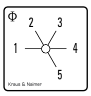
3-step switch without OFF-position („0") — 1-2-3

	I_u / I_{th}	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	2	147	CG4.A230.E	**70008964**	CG4.A230.FS2	**70008965**
	20 A			147	CH10.A230.E	**70012764**	CH10.A230.FT2	**70008927**
	10 A	2	3	147	CG4.A250.E	**70008338**	CG4.A250.FS2	**70010509**
	20 A			147	CH10.A250.E	**70012769**	CH10.A250.FT2	**70008716**
	10 A	3	5	147	CG4.A270.E	**70012256**	CG4.A270.FS2	**70008908**
	20 A			147	CH10.A270.E	**70014932**	CH10.A270.FT2	**70014939**
	10 A	1	2	147	–		CG4.A230.*FS2. DE21	**70029429**
	20 A			147	–		CH10.A230.*FT2. DE21	**70029344**

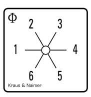
4-step switch without OFF-position („0") — 1-2-3-4

	I_u / I_{th}	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	2	147	CG4.A231.E	**70008225**	CG4.A231.FS2	**70008682**
	20 A			147	CH10.A231.E	**70012765**	CH10.A231.FT2	**70010483**
	10 A	2	4	147	CG4.A251.E	**70009489**	CG4.A251.FS2	**70012215**
	20 A			147	CH10.A251.E	**70012770**	CH10.A251.FT2	**70011650**
	10 A	3	6	147	CG4.A271.E	**70012267**	CG4.A271.FS2	**70012272**
	20 A			147	CH10.A271.E	**70014945**	CH10.A271.FT2	**70014951**
	10 A	1	2	147	–		CG4.A231.*FS2. DE21	**70029428**
	20 A			147	–		CH10.A231.*FT2. DE21	**70029342**

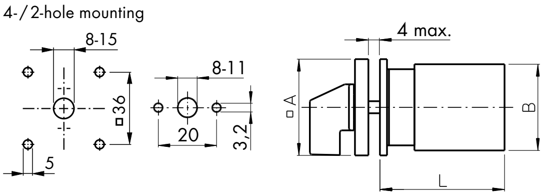
5-step switch without OFF-position („0") — 1-2-3-4-5

	I_u / I_{th}	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	3	148	CG4.A232.E	**70012121**	CG4.A232.FS2	**70009486**
	20 A			148	CH10.A232.E	**70014768**	CH10.A232.FT2	**70012766**
	10 A	2	5	148	CG4.A252.E	**70012227**	CG4.A252.FS2	**70012232**
	20 A			148	CH10.A252.E	**70014896**	CH10.A252.FT2	**70014901**

6-step switch without OFF-position („0") — 1-2-3-4-5-6

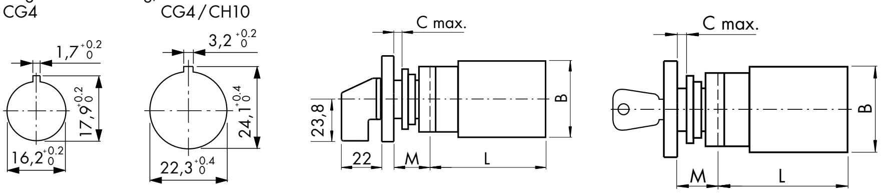
	I_u / I_{th}	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	3	148	CG4.A233.E	**70009665**	CG4.A233.FS2	**70009283**
	20 A			148	CH10.A233.E	**70010895**	CH10.A233.FT2	**70011357**

4-/2-hole mounting

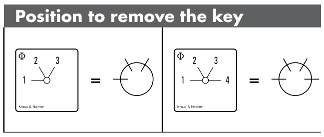


Type	A	B	C	M	L (Stages) 2	3	4	5	6	8
CG4	30	28	5	12,5	50,5	62,5	74,5	86,5	98,5	122,5
CH10	48	46	6	18,2	57,5	71,5	85,5	99,5	113,5	141,5

Single hole mounting, IP66
CG4 CG4/CH10



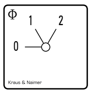
Position to remove the key



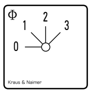
Complete items

	2-hole mounting (CG4) **4-hole mounting** (CH10)	**Single hole mounting, IP66** 16/22 mm (CG4), 22 mm (CH10)
		

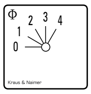
2-step switch with OFF-position („0") — 0-1-2

	Iu/Ith	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	1	149	CG4.A240.E	**70008579**	CG4.A240.FS2	**70008196**
	20 A			149	CH10.A240.E	**70011929**	CH10.A240.FT2	**70011930**
	10 A	2	2	149	CG4.A260.E	**70010398**	CG4.A260.FS2	**70012240**
	20 A			149	CH10.A260.E	**70014907**	CH10.A260.FT2	**70014912**

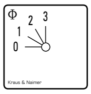
3-step switch with OFF-position („0") — 0-1-2-3

	Iu/Ith	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	2	149	CG4.A241.E	**70011847**	CG4.A241.FS2	**70008366**
	20 A			149	CH10.A241.E	**70012767**	CH10.A241.FT2	**70012768**
	10 A	2	3	149	CG4.A261.E	**70012246**	CG4.A261.FS2	**70008513**
	20 A			149	CH10.A261.E	**70010524**	CH10.A261.FT2	**70014922**

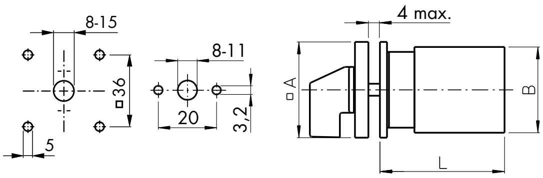
4-step switch with OFF-position („0") — 0-1-2-3-4

	Iu/Ith	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	2	150	CG4.A242.E	**70009544**	CG4.A242.FS2	**70009545**
	20 A			150	CH10.A242.E	**70020670**	CH10.A242.FT2	**70014831**

Group switch-3 groups — Switching sequence: 0, A, A+B, A+B+C

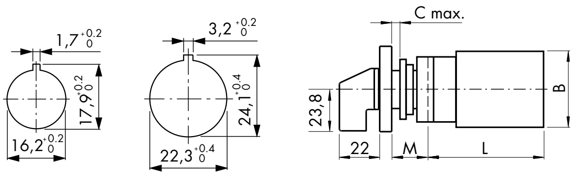
	Iu/Ith	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	2	146	CG4.A311.E	**70009664**	CG4.A311.FS2	**70012372**
	20 A			146	CH10.A311.E	**70009267**	CH10.A311.FT2	**70015069**

4-/2-hole mounting

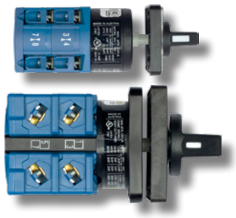


Type	**A**	**B**	**C**	**M**	**L (Stages)** 1	2	3	4	5
CG4	30	28	5	12,5	38,5	50,5	62,5	74,5	86,5
CH10	48	46	6	18,2	43,5	57,5	71,5	85,5	99,5

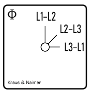
Single hole mounting, IP66
CG4 CG4/CH10



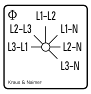
Complete items

	2-hole mounting (CG4) 4-hole mounting (CH10)	Single hole mounting IP66 16/22 mm (CG4), 22 mm (CH10)
		

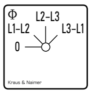
Voltmeter switch without OFF-position („0") (3 line-to-line voltage) — L1-L2–L2-L3–L3-L1

	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	–	–	2	151	CG4.A023.E.F793	**70049300**	CG4.A023.FS2.F793	**70011445**
	–	–		151	CH10.A023.E.F793	**70017499**	CH10.A023.FT2.F793	**70008885**

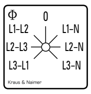
Voltmeter switch without OFF-position („0") (3 line-to-line voltage, 3 phases against N) — L3-L1–L2-L3–L1-L2–L1-N–L2-N–L3-N

	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	–	–	3	151	CG4.A025.E.F795	**70037781**	CG4.A025.FS2.F795	**70011651**
	–	–		151	CH10.A025.E.F795	**70017500**	CH10.A025.FT2.F795	**70009960**

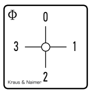
Voltmeter switch with OFF-position („0") (3 line-to-line voltage) — 0–L1-L2–L2-L3–L3-L1

	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	–	–	2	151	CG4.A004.E.F778	**70024831**	CG4.A004.FS2.F778	**70019574**
	–	–		151	CH10.A004.E.F778	**70009107**	CH10.A004.FT2.F778	**70009117**

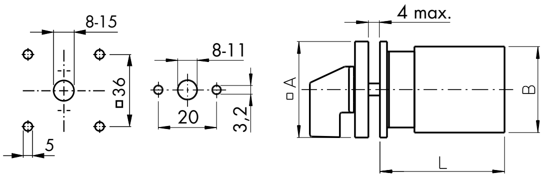
Voltmeter switch with OFF-position („0") (3 line-to-line voltage, 3 phases against N) — L3-L1–L2-L3–L1-L2–0–L1-N–L2-N–L3-N

	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	–	–	3	151	CG4.A007.E.F785	**70009072**	CG4.A007.FS2.F785	**70009080**
	–	–		151	CH10.A007.E.F785	**70009108**	CH10.A007.FT2.F785	**70009118**

Ammeter switch (3 transformers with OFF-position, 360° rotation) — 0–1–2–3

	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	1	3	152	CG4.A048.E	**70025263**	CG4.A048.FS2	**70011730**
	20 A			152	CH10.A048.E	**70014235**	CH10.A048.FT2	**70020503**

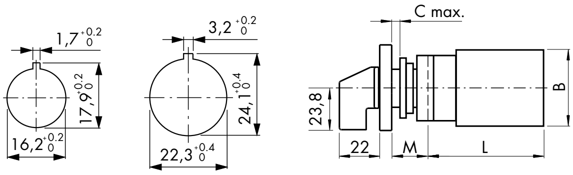
4-/2-hole mounting



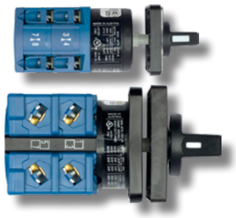
Type	A	B	C	M	L (Stages) 2	L (Stages) 3
CG4	30	28	5	12,5	50,5	62,5
CH10	48	46	6	18,2	57,5	71,5

Single hole mounting, IP66

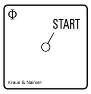
CG4 CG4/CH10



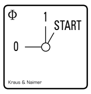
Complete items

	2-hole mounting (CG4) 4-hole mounting (CH10)	Single hole mounting, IP66 16/22 mm (CG4), 22 mm (CH10)
		

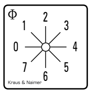
Control switch – Start switch — START

	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	–	1	152	CG4.A175.E	**70000018**	CG4.A175.FS2	**70009131**
	20 A	–		152	CH10.A175.E	**70012751**	CH10.A175.FT2	**70012752**

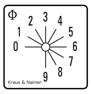
Control switch – Stop-start switch (with spring return from start to run) — 0–1–START

	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	–	1	153	CG4.A178.E	**70018644**	CG4.A178.FS2	**70008817**
	20 A	–		153	CH10.A178.E	**70008734**	CH10.A178.FT2	**70011276**

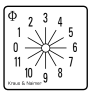
Coding switch binary code (360° rotation) — 0–1–2–3–4–5–6–7

	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	–	2	146	CG4-1.A540.E	**70009423**	CG4-1.A540.FS2	**70009150**
	6 A	–		146	CH11.A540.E	**70015880**	CH11.A540.FT2	**70015882**

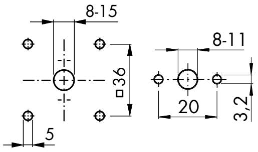
Coding switch binary code — 0–1–2–3–4–5–6–7–8–9

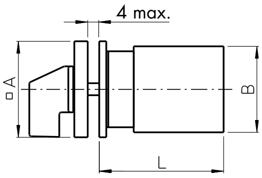
	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	–	2	147	CG4-1.A550.E	**70023711**	CG4-1.A550.FS2	**70009142**
	6 A			147	CH11.A550.E	**70015885**	CH11.A550.FT2	**70015887**

Coding switch binary code (360° rotation) — 0–1–2–3–4–5–6–7–8–9–10–11

	I u/I th	Poles	Stages	Switch program see page	Name	Art. no.	Name	Art. no.
	10 A	–	2	147	CG4-1.A543.E	**70033804**	CG4-1.A543.FS2	**70009346**
	6 A	–		147	CH11.A543.E	**70009579**	CH11.A543.FT2	**70015884**

4-/2-hole mounting

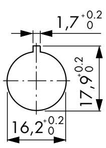


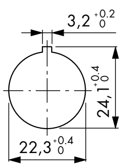


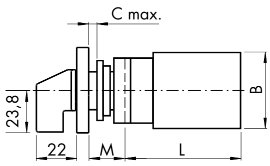
Type	A	B	C	M	L (Stages) 1	2
CG..	30	28	5	12,5	38,5	50,5
CH..	48	46	6	18,2	43,5	57,5

Single hole mounting, IP66

CG4 CG4/CH10







Complete items

KN-CONTROLS BASIC-SERIES

Powerful HMI for a cost-efficient solution

- Highly cost effective HMI series with multiple features
- Brilliant LED-backlight display
- Resistive touchscreen
- Protection class IP66
- Comprehensive certifications
- Various applications such as:

JMobile® CODESYS

Ethernet, USB and serial interface

< Back to the catalog directory >

Kraus & Naimer

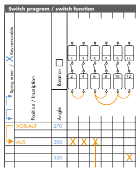
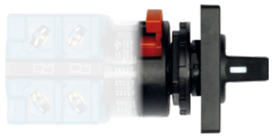
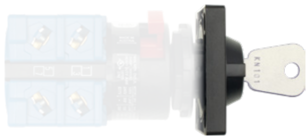
< Back to the catalog directory >

Switches for specific use

DC Switches

Next >

– Ordering example –

	1. Switch type	2. Switch function	3. Mounting	Optional extras (sub-item)
	Kind of switch and electrical capacity	Switch Function	Mounting of switch	
Page	210 ff.	134 ff.	216 ff.	168 ff.
e.g.	**CHR10**	**D-1234**	**FT2**	**CHR10 D-1234*FT2 S0 V750D/3G**
				

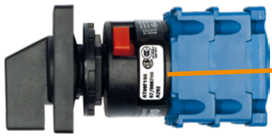
The switch program number will be created custom specific after assessing the form on page 243.

– Ordering example if a replacement is required –

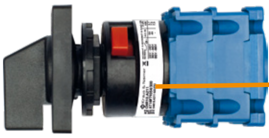
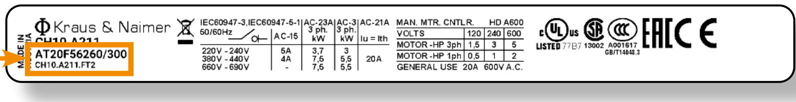
The most important data you should know about ordering, in case of replacement.

1. **2.**

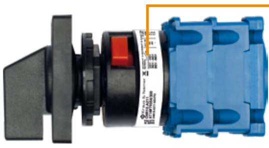
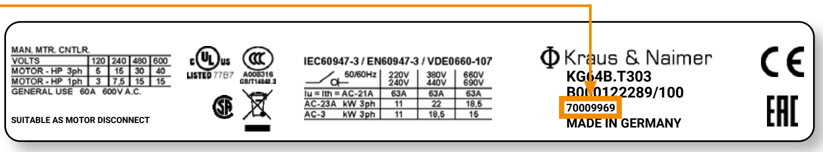
Labels until 2019


Labels until 2022

Labels from 2020

Should details not be available or incomplete,
send us significant pictures of the switch and the description of the electrical properties according to form on page 243.

Switch type–general view

Size	Escutcheon plate (mm)	Switch type	Possible switching angles	Max. Number of stages
S00	30 x 30	*CA4N* [1]	45°, 60°, 90°	9
S0	48 x 48	*CHR10–CHR16, DHR10, DHR11*	30°, 45°, 60°, 90°	12
		DK10, DK11	30°, 60°, 90°	9
		G20, G20S	90°	12
S1	64 x 64	*A11, AD11, A25*	15°, 20°, 30°, 45°, 60°, 90°	12
		CHR10B, CHR16B	30°, 45°, 60°, 90°	12
S2	88 x 88	*A11C, A25C*	20°, 30°, 45°, 60°, 90°	12
		L350/351, L630/631, L1000	30°, 45°, 60°, 90°	12
S3	130 x 130	*L400, L600, L800, L1200, L1600, L2000*	30°, 45°, 60°, 90°	12

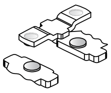
[1]Max. totally switching angle with 180° or 360° rotation

Size

				
S00	S0	S1	S2	S3
30 x 30	48 x 48	64 x 64	88 x 88	130 x 130

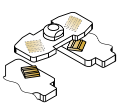
Contact systems

A11, A25
CHR10/16/B
DHR10, DK10



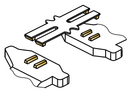
A rigid, double-break bridge with silver alloy contacts provides high making and breaking capabilities for regular control applications.

CA4N / CA4N-1



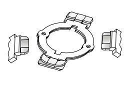
High contact reliability by multiple cross-point contacts, CA4N with 0,5 μ and CA4N-1 with 5 μ gold plating.

AD11, CHR11/B,
DHR11/B
DK11



High contact reliability by H-bridge design with self-cleaning „cross-wire“ contacts. The contact system with gold-plated contacts are for use for low voltages, electronic compatible and harsch environments.

G20, G20S



With the G20(S) respectively G20 we have developed a newly designed DC switch. The compact and rugged disconnector OFFers numerous application posibilities including photovoltaic inverters.

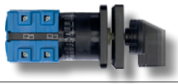
Freely configurable

Characteristics of Switch types

Turn and Push

The contacts are manually operated by turning and/or pushing.
The turn- and push-function could be locked with a programmable push-pull interlock, so that e.g. turning just possible with pushed handle.

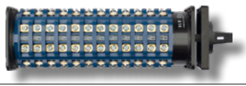
DK series



Up to 48 contacts (4 each stage), up to 24 switch positions

The A series could be used, when you need switch programs up to 48 contacts or more than 12 switch positions.

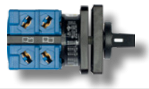
A series



Connection with terminal lugs

With DHR-/DKR series it's possible to get enclosed contact chambers instead to the standard series CHR.
This series includes patented lugs for easy handling of terminal lugs.

CHR-/DHR series



7,6 mm lower installation depth in opposite of Type CA4

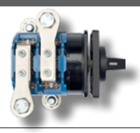
Compared of Switch type CA4 a lower installation depth of 7,6 mm is possible.

CA4N
CA4N-1

Rated Thermal current from 350 to 2400 A

Switches of the L series are compact switches for higher currents up to 2400 A.
They are applicated for connect or disconnect of resistiv, moderate inductive oder under no-load conditions.

L series



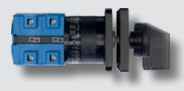
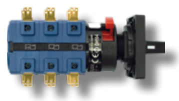
DC-switch up to 1000 V / 20 A with snap on latching and knife contacts

Operational power of 1000 V DC / 20 A combined with high short circiut protection can also be used for AC applications with low currents and voltages.
Possible functions: 0–1, 1–2, 1–0–2, with max.12 contacts

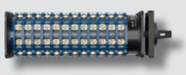
G20, G20S

Quick selection switch types

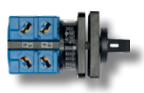
Switches to turn and push

	Type	Thermal current	Operation voltage U_e	Operational power 380 V–440 V AC-23A	AC-3	Size Face plate	Standard type	H-bridge gold	Enclosed contact chambers	Switching by turn/push
	DK10	16 A	20–690 V			☐ 48 mm S0	●		●	●
	DK11	6 A	1[1]–600 V			☐ 48 mm S0		●	●	●
	DK10-1	16 A	20–690 V			☐ 48 mm S0	Switches with gold-plated contacts		●	●
	DK10-4	16 A	20–690 V			☐ 48 mm S0	Switches with quick connects		●	●

Up to 48 contacts (4 per stage), up to 24 switch positions

	Type	Thermal current	Operation voltage U_e	Operational power 380 V–440 V AC-23A	AC-3	Size Face plate	Standard type	H-bridge gold
	A11	20 A	690 V	7,5 kW	5,5 kW	☐ 64 mm S1	●	
	A11C	20 A	690 V	7,5 kW	5,5 kW	☐ 88 mm S2		
	A25	25 A	690 V	11 kW	7,5 kW	☐ 64 mm S1	●	
	A25C	25 A	690 V	11 kW	7,5 kW	☐ 88 mm S2		
	AD11	6 A	1[1]–600 V			☐ 64 mm S1		●

Switches for connection with terminal lug

	Type	Thermal current	Operation voltage U_e	Operational power 380 V–440 V AC-23A	AC-3	Size Face plate	Standard type	H-bridge gold	Enclosed contact chambers	Switching by turn/push
	CHR10	20 A	690 V	7,5 kW	5,5 kW	☐ 48 mm S0	●			
	CHR16	25 A	690 V	11 kW	7,5 kW	☐ 48 mm S0	●			
	CHR11	6 A	600 V			☐ V48 mm S0		●		
	DHR10	16 A	20–690 V			☐ 48 mm S0			●	
	DHR11	6 A	1[1]–600 V			☐ 48 mm S0		●	●	
	CHR10B	20 A	690 V	7,5 kW	5,5 kW	☐ 64 mm S1				
	CHR16B	25 A	690 V	11 kW	7,5 kW	☐ 64 mm S1				
	DHR11B	6 A	1[1]–600 V			☐ 64 mm S1		●	●	

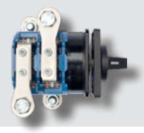
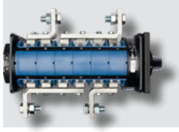
[1] Values for lower voltages On request.

Quick selection switch types

7,6 mm lower installation depth in opposite of Type CA4

	Type	Thermal current	Operation voltage U_e	Operational power 380 V–440 V AC-23A	Operational power 380 V–440 V AC-3	Size Face plate	Standard type	Contacts gold-plated
	CA4N	10 A	440 V	3 kW	2,2 kW	☐ 30 mm S00	●	
	CA4N-1	10 A	440 V	3 kW	2,2 kW	☐ 30 mm S00		●

Switches up to 350 to 2400 A

	Type	Thermal current	Operation voltage U_e	Operational power 380 V–440 V AC-23A	Operational power 380 V–440 V AC-3	Size Face plate	Standard type
	L350	350 A	690 V	90 kW	37 kW	☐ 88 mm S2	●
	L351	350 A	690 V	90 kW	37 kW	☐ 88 mm S2	
	L630	630 A	690 V	90 kW	37 kW	☐ 88 mm S2	●
	L631	630 A	690 V	90 kW	37 kW	☐ 88 mm S2	
	L1000	1000 A	690 V	90 kW	37 kW	☐ 88 mm S2	●
	L400	500 A	690 V	132 kW	55 kW	☐ 130 mm S3	
	L600	800 A	690 V	132 kW	55 kW	☐ 130 mm S3	
	L800	1100 A	690 V	132 kW	55 kW	☐ 130 mm S3	
	L1200	1450 A	690 V	132 kW	55 kW	☐ 130 mm S3	●
	L1600	1900 A	690 V	132 kW	55 kW	☐ 130 mm S3	●
	L2000	2400 A	690 V	132 kW	55 kW	☐ 130 mm S3	●

DC-switch up to 1000 V / 20 A with snap on latching and knife contacts

	Type	Operational current U_e	Operation voltage U_e	Size Face plate	
	G20/S	20 A DC	1000 V	☐ 48 mm S0	

Detailed selection switch types

Switch types acc. IEC 60947-3, EN 60947-3, VDE 0660 Part 107, USA / Kanada

					CA4N CA4N-1	A11/C	A25/C	AD11	CHR10/B	CHR11
Rated uninterrupted current I_u/I_{th}										
	IEC 60947-3, EN 60947-3, VDE 0660 Part 107			A	10	20	25	6	20	6
	USA / Kanada [2]			A	10	10	25	6	20	6
Rated operational voltage U_e [1]										
	IEC 60947-3, EN 60947-3, VDE 0660 Part 107			V	440	690	690	600	690	600
	USA / Kanada [2]			V	300	600	600	600	600	300
	Min. Voltage			V	-	20	20	1	-	1 [6]
Rated impulse withstand voltage U_{imp}										
				kV	4	6	6	On request	6	On request
Rated operational current I_e										
AC-21A	Switching of resistive loads, with moderate overloads	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	1 V 6/12 V 24/48 V 110/220 V 380/440 V 500/600 V 660/690 V	A A A A A A A	- - 10 10 10 - -	- - 20 20 20 20 20	- - 25 25 25 25 25	6 3/2 1/0,8 0,4/0,2 0,13/0,1 0,08/0,05 -	20	6 3/2 1/0,8 0,4/- -/- 0,08/0,05 -/-
AC-22A	Switching of combined resistive or low inductive loads including moderate overloads	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	220 V–500 V 220 V–440 V 660 V–690 V 500 V	A A A A	10 - - -	20 - 16 -	25 - 25 -	- - - -	- 20 16 20	- - - -
AC-15	Switching of magnetic drives, contactors, valves and electrical magnets	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	110 V 220 V–240 V 380 V–440 V	A A A	- 2,5 1,5	- 6 4	- 8 5	- - -	5 5 4	- - -
Pilot duty			Heavy	VAC	A300	600	600	-	A600	-
Ampere rating	Resistive or low inductive loads			A	10	10	25	see AC21-A	20	-
Rated utilization category										
AC-2	Slip-ring induction motor starting, reversing, plugging and star-delta starting (CHR10B)	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	3 phase, 3 pole 220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	2,5 4,5 - -	4 7,5 10 10	5,5 11 15 13	- - - -	4 7,5 10 10	- - - -
AC-3	Direct-on-line starting of squirrel-cage motors, star-delta starting (CHR16B)	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	3 phase, 3 pole 220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	1,5 2,2 - -	3 5,5 5,5 5,5	4 7,5 7,5 7,5	- - - -	3 5,5 5,5 5,5	- - - -
			1 phase, 2 pole 110 V – 120 V 220 V – 240 V 380 V – 440 V 500 V 660 V–690 V	kW kW kW kW kW	0,3 0,55 0,75 - -	0,6 (110 V) 2,2 3 - -	1,5 (110 V) 3 3,7 - -	- - - - -	0,6 2,2 3 3 3	- - - - -
AC-4	Starting of squirrel-cage motors, reversing, plugging and inching	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	3 phase, 3 pole 220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	0,37 0,55 - -	0,55 1,5 1,5 1,5	1 2,2 2,5 2,5	- - - -	0,55 1,5 1,5 1,5	- - - -
			1 phase, 2 pole 110 V – 120 V 220 V – 240 V 380 V – 440 V	kW kW kW	0,15 0,25 0,5	0,15 (110 V) 0,25 0,55	0,2 (110 V) 0,5 0,8	- - -	0,3 0,75 1,5	- - -
AC-23A	Frequent switching motors or other high inductive loads	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	3 phase, 3 pole 220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	1,8 3 - -	3,7 7,5 7,5 7,5	5,5 11 11 11	- - - -	3,7 7,5 7,5 7,5	- - - -
			1 phase, 2 pole 110 V – 120 V 220 V – 240 V 380 V – 440 V 500 V 660 V–690 V	kW kW kW kW kW	0,37 0,75 1,1 - -	0,75 (110 V) 2,2 3,7 - -	1,5 (110 V) 3 5,5 - -	- - - - -	0,75 2,5 3,7 4 4	- - - - -
	Standard motor load DOL-Rating (similiar AC-3)	UL / Kanada	3 phase, 3 pole 110 V–120 V 220 V–240 V 440 V–480 V 550 V–600 V	HP HP HP HP	0,75 1 - -	1 1 1 1	1,5 3 7,5 10	- - - -	1,5 3 5 5	- - - -
			1 phase, 2 pole 110 V–120 V 220 V–240 V 277 V 440 V–480 V 550 V–600 V	HP HP HP HP HP	0,33 0,75 0,75 - -	0,5 1 1 1 1	0,75 1,5 2 3 5	- - - - -	0,5 1 2 2 2	- - - - -
Short circuit protection										
Max. fuce size		gL/gG-Characteristic gL-Characteristic		A A	10 -	20 -	35 -	6 -	- 25	6 [7]
Rated short-time withstand current		(1s-current)		A	60	120	220	45	220	50
Max. permissible wire gage (use copper wire only)										
	Single-core or stranded wire (AWG)			mm²	1,5	2,5 (12)	4 (10)	2,5 (14)	-	-
	Flexible wire			mm²	1,5	2,5	2,5	2,5	-	-
	Flexible wire sleeving in accordance with DIN 46228			mm²	1	2,5	2,5	2,5	-	-
	AWG wire (without sleeve)			AWG	16	14	12	14	-	-
Connection with isolated terminal and spade lugs										
	Inside cable diameter			mm	-	-	-	-	≥3,6	≥3,6
	Outside cable diameter			mm	-	-	-	-	≤8,6	≤8,6
	Connection with isolated quick connections			mm	-	-	-	-	6,3	6,3
Ambient temperature of stages [4, 5]										
	open at 100 % I_u/I_{th}				55 °C over 24 hours with peaks up to 60 °C					
	enclosed at 100 % I_{the}				35 °C over 24 hours with peaks up to 40 °C					

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3. Values for other supply systems Upon request.. | [2] International Standards and Approvals, refer to page 192 | [3] 16 A bei 150 V und 10 A bei 300 V für CG8 | [4] For electromagnetic optional extras see additional data in the chapter ***OPTIONAL EXTRAS***. | [5] Storage temperature: -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible). | [6] Lower values On request. | [7] G-fuse, swift

Switch types acc. IEC 60947-3, EN 60947-3, VDE 0660 Part 107, USA / Kanada

						CHR16/B	DHR10	DHR11/B	DK10	DK11
Rated uninterrupted current I_u/I_{th}										
	IEC 60947-3, EN 60947-3, VDE 0660 Teil 107				A	25	16	6	16	6
	USA / Kanada[2]				A	25	15	6	15	6
Rated operational voltage U_e [1]										
	IEC 60947-3, EN 60947-3, VDE 0660 Teil 107				V	690	690	600	690	600
	USA / Kanada[2]				V	600	600	600	600	600
	Min. Voltage				V	-	-	1[6]	-	1[6]
Rated impulse withstand voltage U_{imp}										
					kV	6	6	On request	6	On request
Rated operational current I_e										
AC-21A	Switching of resistive loads, with moderate overloads	IEC 60947-3, EN 60947-3, VDE 0660 Part 107		1 V 6/12 V 24/48 V 110/220 V 380/440 V 500/600 V 660/690 V	A A A A A A A	25	16	6 3/2 1/0,8 0,4/0,2 0,13/0,1 0,09/0,05 -/-	16	6 3/2 1/0,8 0,4/0,2 0,13/0,1 0,09/0,05 -/-
AC-22A	Switching of combined resistive or low inductive loads including moderate overloads	IEC 60947-3, EN 60947-3, VDE 0660 Part 107		220 V–500 V 220 V–440 V 660 V–690 V 500 V	A A A A	- 25 25 25	- - - -	- - - -	- - - -	- - - -
AC-15	Switching of magnetic drives, contactors, valves and electrical magnets	IEC 60947-3, EN 60947-3, VDE 0660 Part 107		110 V 220 V–240 V 380 V–440 V	A A A	8 8 5	5 5 3	- - -	5 5 3	- - -
Pilot duty				Heavy	VAC	A600	600	-	600	-
Ampere rating	Resistive or low inductive loads				A	25	15	-	15	-
Rated utilization category										
AC-2	Slip-ring induction motor starting, reversing, plugging and star-delta starting (CHR10B)	IEC 60947-3, EN 60947-3, VDE 0660 Teil 107	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	5,5 11 15 13	- - - -	- - - -	- - - -	- - - -
AC-3	Direct-on-line starting of squirrel-cage motors, star-delta starting (CHR16B)	IEC 60947-3, EN 60947-3, VDE 0660 Teil 107	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	4 7,5 7,5 7,5	2,2 3,7 3,7 3,7	- - - -	2,2 3,7 3,7 3,7	- - - -
			1 phase, 2 pole	110 V – 120 V 220 V – 240 V 380 V – 440 V 500 V 660 V–690 V	kW kW kW kW kW	1,5 3 3,7 4 3,7	0,37 1,1 2,2 - -	- - - - -	0,37 1,1 2,2 - -	- - - - -
AC-4	Starting of squirrel-cage motors, reversing, plugging and inching	IEC 60947-3, EN 60947-3, VDE 0660 Teil 107	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	1,5 3 3 3	- - - -	- - - -	- - - -	- - - -
			1 phase, 2 pole	110 V – 120 V 220 V – 240 V 380 V – 440 V	kW kW kW	0,45 1,1 2,2	- - -	- - -	- - -	- - -
AC-23A	Frequent switching motors or other high inductive loads	IEC 60947-3, EN 60947-3, VDE 0660 Teil 107	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	5,5 11 11 11	3 5,5 5,5 4	- - - -	3 5,5 5,5 4	- - - -
			1 phase, 2 pole	110 V – 120 V 220 V – 240 V 380 V – 440 V 500 V 660 V–690 V	kW kW kW kW kW	1,5 3 5,5 5,5 5,5	0,55 1,5 2,5 - -	- - - - -	0,55 1,5 2,5 - -	- - - - -
	Standard motor load DOL-Rating (similiar AC-3)	UL / Kanada	3 phase 3 pole	110 V–120 V 220 V–240 V 440 V–480 V 550 V–600 V	HP HP HP HP	2 5 10 10	0,75 1,5 3 3	- - - -	0,75 1,5 3 3	- - - -
			1 phase 2 pole	110 V–120 V 220 V–240 V 277 V 440 V–480 V 550 V–600 V	HP HP HP HP HP	1 2 3 5 5	0,25 0,5 0,5 1 1	- - - - -	0,25 0,5 0,5 1 1	- - - - -
Short circuit protection										
Max. fuce size		gL/gG-Characteristic gL-Characteristic			A A	- 35	- 16	6[7]	- 16	6[7]
Rated short-time withstand current		(1s-current)			A	250	120	40	120	40
Max. permissible wire gage (use copper wire only)									2 x	2 x
	Single-core or stranded wire				mm²	-	-	-	2,5	2,5
	Flexible wire				mm²	-	-	-	2,5	2,5
	Flexible wire sleeving in accordance with DIN 46228				mm²	-	-	-	1,5	1,5
	AWG wire (without sleeve)				AWG	-	-	-	14	14
Connection with isolated terminal and spade lugs										
	Inside cable diameter				mm	≥3,6	≥3,2	≥3,2	-	-
	Outside cable diameter				mm	≤8,6	≤7,4	≤7,4	-	-
	Connection with isolated quick connections				mm	6,3	-	-	6,3	6,3
Ambient temperature of stages [4, 5]										
	open at 100 % I_u/I_{th}					55 °C over 24 hours with peaks up to 60 °C				
	enclosed at 100 % I_{the}					35 °C over 24 hours with peaks up to 40 °C				

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3. Values for other supply systems Upon request.. | [2] International Standards and Approvals, refer to page 192 | [3] 16 A bei 150 V und 10 A bei 300 V für CG8 | [4] For electromagnetic optional extras see additional data in the chapter ***OPTIONAL EXTRAS***. | [5] Storage temperature: -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible). | [6] Lower values On request. | [7] G-fuse, swift

Detailed selection switch types

Switch types acc. IEC 60947-3, EN 60947-3, VDE 0660 Part 107, USA / Kanada

						L350 L351	L400	L600	L630 L631	L800
Rated uninterrupted current I_u/I_{th}										
IEC 60947-3, EN 60947-3, VDE 0660 Part 107										
Ambient temperature 35 °C over 24 hours with peaks up to 40 °C					A	350	500	800	630	1100
Ambient temperature. 55 °C over 24 hours with peaks up to 60 °C					A	350	500	750	600	950
USA / Kanada [2]					A	350	400	630	630	800
Rated operational voltage U_e [1]										
IEC 60947-3, EN 60947-3, VDE 0660 Part 107 [1]					V	690	690	690	690	690
USA / Kanada [2]					V	600	600	600	600	600
Rated impulse withstand voltage U_{imp}										
					kV	On request				
Rated operational current I_e										
AC-20A	Connecting and disconnecting under no-load conditions	IEC 60947-3, EN 60947-3, VDE 0660 Part 107		690 V	A	350	500	800	630	1100
AC20-B	Occasional switching under loads cos φ 0,8	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	3 phase, 3 pole and 1 phase, 2 pole	220 V–440 V 500 V 660 V–690 V	A A A	350 350 315	500 450 350	800 500 400	500 450 360	1000 630 400
AC-21B	Switching of combined resistive or low inductive loads including modera-te overloads	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	3 phase, 3 pole and 1 phase, 2 pole	220 V–440 V 500 V 660 V–690 V	A A A	250 250 200	450 400 300	500 450 350	350 315 250	630 500 350
Interrupting rating		UL /C-UL [2]		600 V	A	200	300	300	200	300
Rated utilization category										
AC-23B	Occasional switching motors or other high inductive loads	IEC 60947-3, EN 60947-3, VDE 0660 Teil 107	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	45 90 110 55	75 132 132 55	75 132 132 65	45 90 110 65	75 132 132 65
Short circuit protection										
Max. fuce size			aR-Characteristic		A	400	500	800	630	1100
Rated short-time withstand current			(1s-current)		A	On request				
Terminals										
						Version of bolt terminals on request.				
Ambient temperature of stages [4, 5]										
						55 °C over 24 hours with peaks up to 60 °C				

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3. Values for other supply systems Upon request.. | [2] International Standards and Approvals, refer to page 192 | [3] 16 A bei 150 V und 10 A bei 300 V für CG8 | [4] For electromagnetic optional extras see additional data in the chapter ***OPTIONAL EXTRAS***. | [5] Storage temperature: -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible). | [6] Lower values On request. | [7] G-fuse, swift

Direct current switch G20, G20S acc. IEC 60947-3, EN 60947-3, VDE 0660 Part 107

Type addition "S" means .... instead of standard latching mechanism for fast and manual independently switching.							G20	G20S
Utilization category	**Series contacts / admissible voltage in Volt**						**Rated operational current I_e**	
	1	2	3	4	5	6		
DC-21A	250	500	750	1000			8	20
	440	880					4	13
DC-22A	250	500	750	1000			2	20
	330	660	990				1	10
	440	880					0,5	5
DC-23A	24	48	72	96	120	144	20	20
	48	96	144	192	240	288	12	20
	60	120	180	240	300	360	5	15
	110	220	330	440	550	660	3	12
	160	320	480	640	800	960	2	8
	250	500	750	1000			1	5
	330	660	990				0,5	3
	440	880					0,25	1

Switch types acc. IEC 60947-3, EN 60947-3, VDE 0660 Part 107, USA / Kanada

						L1000	L1200	L1600	L2000
Rated uninterrupted current I_u/I_{th}									
	IEC 60947-3, EN 60947-3, VDE 0660 Part 107								
	Ambient temperature 35 °C over 24 hours with peaks up to 40 °C				A	1000	1450	1900	2400
	Ambient temperature 55 °C over 24 hours with peaks up to 60 °C				A	920	1300	1700	2000
	USA / Kanada [2]				A	1000	1200	1600	2000
Rated operational voltage U_e [1]									
	IEC 60947-3, EN 60947-3, VDE 0660 Part 107				V	690	690	690	690
	USA / Kanada [2]					600	600	600	600
Rated impulse withstand voltage U_{imp}									
					kV	On request			
Rated operational current I_e									
AC-20A	Connecting and disconnecting under non load conditions	IEC 60947-3, EN 60947-3, VDE 0660 Part 107		690 V	A	1000	1450	1900	2400
AC20-B	Occasional switching under load cos φ 0,8	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	3 phase, 3 pole and 1 phase, 2 pole	220 V–440 V 500 V 660 V–690 V	A A A	630 500 400	1200 800 400	1200 800 400	1200 800 400
AC-21B	Switching of combined resistive or low inductive loads including moderate overloads	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	3 phase, 3 pole and 1 phase, 2 pole	220 V–440 V 500 V 660 V–690 V	A A A	400 350 300	800 630 350	800 630 350	800 630 350
Interrupting rating		UL /C-UL [2]		600 V	A	200	300	200	200
Rated utilization category									
AC-23B	Occasional switching motors or other high inductive loads	IEC 60947-3, EN 60947-3, VDE 0660 Part 107	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW kW kW kW	45 90 110 65	75 132 132 65	75 132 132 65	75 132 132 65
Short circuit protection									
Max. fuce size			aR-Characteristic		A	1000	2 x 800	2 x 1000	2 x 1250
Rated short-time withstand current			(1s-current)		A	On request			
Terminals									
						Version of bolt terminals on request.			
Ambient temperature of stages [4, 5]									
						55 °C over 24 hours with peaks up to 60 °C			

[1] Valid for lines with common neutral termination, overvoltage category III, pollution degree 3. Values for other supply systems Upon request.. | [2] International Standards and Approvals, refer to page 192 | [3] 16 A bei 150 V und 10 A bei 300 V für CG8 | [4] For electromagnetic optional extras see additional data in the chapter ***OPTIONAL EXTRAS***. | [5] Storage temperature: -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible). | [6] Lower values On request. | [7] G-fuse, swift

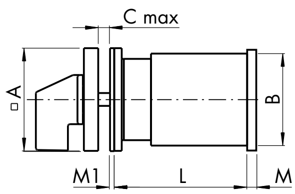
Detailed selection switch types

4-hole panel mounting, IP40 — E, E-V, ER
4-hole panel mounting, IP66 — EF, EF-V, ERF
2-hole panel mounting, IP65 — E22, E22-V

For front mounting you have various options available. Type „*ER*." for installation with additional rear mounting plate. „*-V*" indicates that the terminals are rotated 90° clockwise.

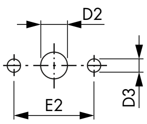
	CA4N CA4N-1	CHR10/11/16 DHR10/11	DK10	G20/S	A11, AD11, A25 CHR10B CHR16 DHR11B	A11C, A25C L350/351 L630/631 L1000	L400, L600 L800 L1200 L1600 L2000
Mounting	**S00 (30x30)**	**S0 (48x48)**			**S1 (64x64)**	**S2 (88x88)**	**S3 (130x130)**
2-Loch, IP40	*E* *E-V*						
2-Loch, IP66	*EF* *EF-V*						
4-Loch, IP40		*E, ER* (not CHR..) *E-V*	*E* *E-V*	*E* *E-V*	*E, ER* (not CHR..) *E-V* (not A..)	*E, ER* *E-V* (not A..)	*E, ER*
4-Loch, IP66		*EF, ERF* (not CHR..) *EF-V*		*EF* *EF-V*	*EF, ERF* (not CHR..) *EF-V* (not A..)	*EF, ERF* *EF-V* (not A..)	*EF, ERF*
2-Loch, IP65		*E22* *E22-V*		*E22* *E22-V*			

Dimension L on page 212



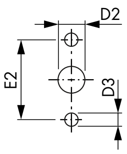
	CA4N CA4N-1	A11 AD11	A25	A11C A25C	CHR10/11 CHR16	CHR10B CHR16B	DHR10/11	DK10/11
A	30	64	64 (88 [1])	88	48	64	48	48
B	29,5	60	70	84	46	56	42	42
C	4	4	4	5,5	4	4	4	4
D3	3,2	5	5 (6 [1])	6	5	5	5	5
E1		48	48 (68 [1])	68	36	48	36	36
E2	20				30		30	
M[1]	1	6,5	7,6	7,6			5,5	
M1								
D2								
E, E-V, ER	8–11	10–15	10–15	13–17	8–15	10–15	8–15	15–19
EF, EF-V, ERF	8–11	19–22	19–22	26–30	15–19	19–22	15–19	
E22, E22-V					11–15		11–15	

E-V, EF-V for CA4N/-1
E22 for CHR10/11/16, DHR10/11, G20/S



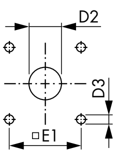
	DHR11B	G20/S	L350/351, L630/631 L1000	L400, L600, L800 L1200, L1600, L2000
A	64	48	88	130
B	56	37,4 x 41,3	88 [2]	126 [2]
C	4	4	5,5	7
D3	5	5	6	7
E1	48	36	68	104
E2		30		
M[1]	5,5		27,5	32
M1				
D2				
E, E-V, ER	10–15	8–15	13–17	15,5–20
EF, EF-V, ERF	19–22	15–19	26–30	22–25
E22, E22-V		11–15		

E, EF for CA4N/-1
E22-V for CHR10/11/16, DHR10/11, G20/S



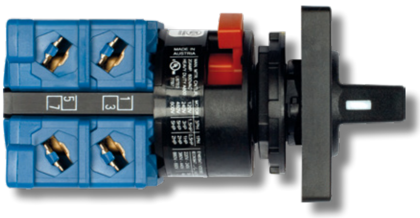
[1] Dimensions for ER and ERF rear mounting panel.
[2] Additional dimension for terminal lugs see page 216

Mounting E, E-V, EF, EF-V, ER, ERF
For face plate and rear mounting panel



Mounting

Single hole mounting 16 / 22 / 30 / 40 [1] mm, IP66, IP69k (FT. + FH.) FH., FH.-V, FS., FS.-V, FT., FT.-V, EL.

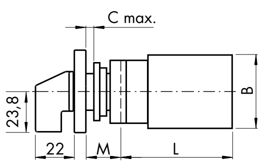


Saving time by using switches with single hole mounting. This type of mounting is fixed about 5 times faster as a conventional four hole panel mounting. All switches with single hole mounting have the high degree of protection IP66 (not applicable for A11, AD11 and A25). Switches supplied with escutcheon plate or front ring.

An extension ring is enclosed when two drill diameters are specified.

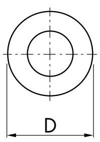
When ordering with the suffix *...-V*, the switches can be supplied with connection terminals rotated 90 ° clockwise (not applicable for A11, AD11 and A25).

Dimension L on page 212

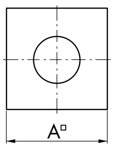


Design		Size	Face plate-/ Ring size	∅ Hole	Code
Front ring		S00	Ø 29,5	16,2 / 22,3	*FS1*
		S0	Ø 39,4	22,3	*FT1*
			Ø 39,4	22,3 / 30,5	*FT3*
		S1	Ø 45	40	*EL1* [5]
Square escutcheon plate		S00	30 x 30	16,2 / 22,3	*FS2*
		S0	48 x 48	22,3	*FT2*
				22,3 / 30,5	*FT4*
		S1 [2]	64 x 64	22,3	*FH3*
		S1	64 x 64	40	*EL2* [5]
Rectangular escutcheon plate		S00	30 x 39	16,2 / 22,3	*FS4*
		S0	48 x 59	22,3	*FT6*
		S1 [2]	64 x 78,5	22,3	*FH4*
		S1	64 x 78,5	40	*EL4* [3, 5]

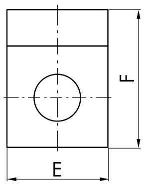
FS1
FT1, FT3
EL1



FH3
FS2
FT2, FT4
EL2

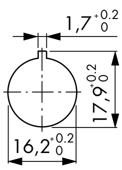


FH4
FS4
FT6
EL4

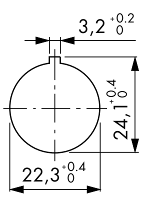


	CA4N/-1	CHR10–CHR16	DHR10 DHR11	DK10 DK11	G20/S	A11 AD11 A25
A/E	30	48	48	48	48	64
A/E (FH3)		64	64	64		
A/E (FH4)		64	64	64		
B	29,5	46	42	42	37,4 x 41,3	60/70 [4]
C	5	6	6	6	6	1–6,3
D	29,5	39,4	39,4	39,4	39,4	45
F	39	59	59	59	59	78,5
F (FH4)		78,5	78,5	78,5		
M	12,5	18,2	18,2	3,7	18,2	11
M (FH3)		25,2	25,5	3,7		
M (FH4)		25,2	25,5	25,2		

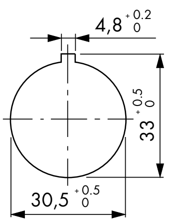
FS1, FS2, FS4



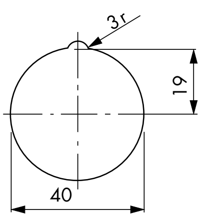
FH3, FH4
FS1, FS2, FS4
FT1, FT2
FT3, FT4, FT6



FT3, FT4



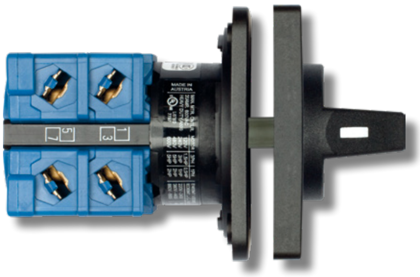
EL1, EL2, EL4



[1] Degree of protection IP40 | [2] with heavy duty latching | [3] composed of square escutcheon plate EL2 and rectangular add-on face plate PRC | [4] only for A25 | [5] only for A11, AD11, A25

Mounting

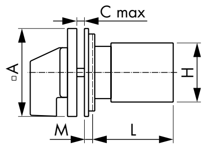
Front panel mounting using larger face plate and handle, IP40 / IP66 — EG, EGF

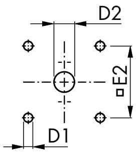


EG – Heavy duty latching panel, degree of protection IP40.
(Not applicable for DK.. and L...)
4-hole panel mounting using larger size

EGF – Heavy duty latching panel, degree of protection IP66.
(Not applicable for DK.. and L...)
4-hole panel mounting using larger size

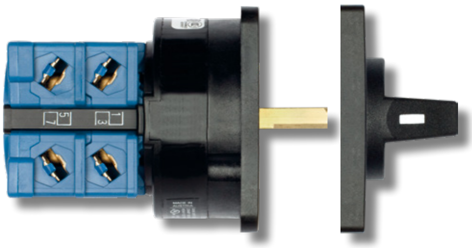
Dimension L on page 221





	A11 AD11	A25	CHR10 CHR11 CHR16	DHR10 DHR11	G20/S
A	88	88	64	64	64
C	5,5	5,5	4	4	4
D1	6	6	5	5	5
D2 (EG)	13–17	13–17	10–15	10–15	10–15
D2 (EGF)	26–30	26–30	19–22	19–22	19–22
E2	68	68	48	48	48
H	60	70	46	42	46
M	0,5	0,5	6,7	6,7	6,7

Front panel mounting with heavy duty latching and metal shaft, IP40 / IP66 — KN2, KN1, KD1, KN2F, KN1F, KD1F



Aluminium shaft, size S0 (48 x 48)
KN2 – Degree of protection IP40
KN2F – Degree of protection IP66

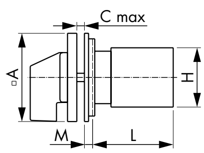
Aluminium shaft, size S1 (64 x 64)
KN1 – Degree of protection IP40
KN1F – Degree of protection IP66

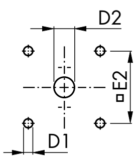
Shipment without mounting screws

Square metal shaft, size S1 (64 x 64)
KD1 – Degree of protection IP40
KD1F – Degree of protection IP66

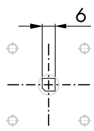
Shipment without mounting screws

Dimension L on page 221





Square shaft KD1



KN2 KN2F	CHR10, CHR11 CHR16	DHR10 DHR11
A	48	48
C	4	4
D1	5	5
D2 (KN2)	8–15	8–15
D2 (KN2F)	15–19	15–19
E2	36	36
H	46	42
M	5,2	5,2

KN1, KN1F KD1, KD1F	A11 AD11	A25	CHR10 CHR11 CHR16	CHR10B CHR11B CHR16B	DHR10 DHR11	DHR10B DHR11B
A	64	64	64	64	64	64
C	4	4	4	4	4	4
D1	5	5	5	5	5	5
D2 (KN1, KD1)	10–15	10–15	10–15	10–15	10–15	10–15
D2 (KN1F, KD1F)	19–22	19–22	10–22	19 – 22	10–22	19 – 22
E2	48	48	48	48	48	48
H	60	70	46	56	42	56
M	7	7	4,7	7	4,7	12

Front panel mounting with protective cover — EC., ED..

Protective covers with other mountings: see chapter OPTIONAL EXTRAS.

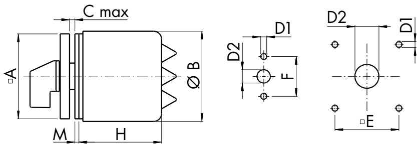
EC – 4-hole panel mounting, front IP40 – rear IP30 (A.., CHR.., DHR..)

ED – 4-hole panel mounting + additional shaft seal, front IP65 – rear IP30 (A.., CHR.., DHR..)

EC1 – 4-hole panel mounting, front IP40 – rear IP42 (CHR..B, DHR..B)

ED1 – 4-hole panel mounting + additional shaft seal, front IP65 – rear IP42 (CHR..B, DHR..B)

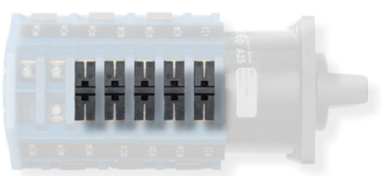
ED22 – 2-hole panel mounting, front IP66/69k – rear IP42 (CHR10–CHR16)



		A11 AD11		CHR10, CHR11 CHR16		CHR10B CHR16B		DHR10 DHR11	DHR11B
		EC	ED	EC ED	ED22	EC ED	EC1 ED1	EC ED	EC ED
A		88	88	64	48	64	64	64	64
B		106	106	68	74	68	74	68	88
C	EC, EC1	5,5	5,5	4		4	4	4	4
C	ED, ED1, ED22	7,5	7,5	2	4	4	4	2	4
D1		6	6	5	5	5	5	5	5
D2	EC, EC1	13-17	13-17	8-15		10-15	10-15	8-15	10-15
D2	ED, ED1, ED22	28-33	28-33	18-22	11-15	22-25	19-22	18-22	22-25
E		68	68	48		48	48	48	48
F					30				
M	ED, ED22			2	1,5	2		2	2
1	Measure H according to number of stages	101	103,5		74,3		72,7	103	127
2		101	103,5		74,3		72,7	103	127
3		101	103,5		94,3		92,7	103	127
4		101	103,5	103	94,3	114,5			127
5		139	141,5			127			139,5
6		139	141,5			139,5			164,5
7		139	141,5			164,5			177
8		177	179,5			177			
9		177	179,5						
10		177	179,5						
11		215	217,5						
12		215	217,5						

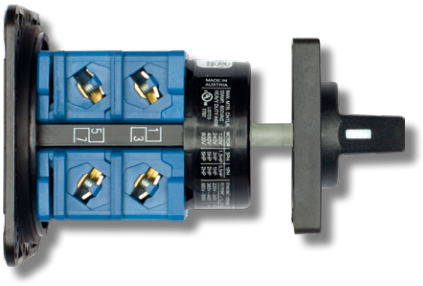
Terminal covers

M160



The protective cover prevents accidental contact with current-carrying terminals. (A25, A25C)

Base mounting — VE, VE-V, VE1, VE1-V, VF, VF-V, VE22, VE22V, VF22, VF22V



VE – Mounting plate and escutcheon plate with 4-hole panel mounting (Not DK..), IP40

VE1 – Snap-on base mounting for DIN rail acc. to EN 60715, escutcheon plate with 4-hole panel mounting, IP40

VF – Mounting plate and escutcheon plate with 4-hole panel mounting, Integrated door clutch for enclosures (Only CHR..), IP65

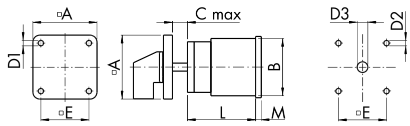
VE22 – Mounting plate and escutcheon plate with 2-hole panel mounting (Only for CHR.. and DHR), IP40

VF22 – Mounting plate and escutcheon plate with 2-hole panel mounting, Integrated door clutch for enclosures (Only CHR..), IP65

When ordering with the suffix *...-V*, the switches can be supplied with connection terminals rotated by 90 ° clockwise.

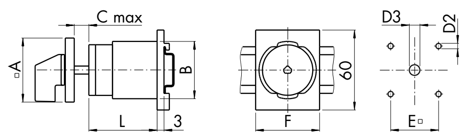
VE / VE-V

Dimension L on next page



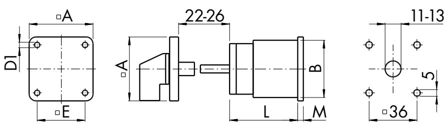
VE1
Size S0, S1

Dimension L on next page



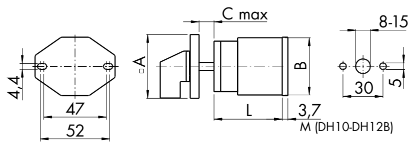
VF / VF-V
Size S0 (Only CHR..)

Dimension L on next page



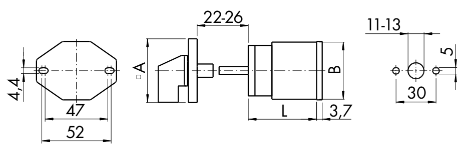
VE22 / VE22V
Size S0

Dimension L on next page



VF22 / VF22-V
Size S0 (Only CHR..)

Dimension L on next page



	A11 AD11	A25	CHR10, CHR11 CHR16	G20/S
A	64	64 (88 [1])	48 (64 [1])	48 (64 [1])
B	60	70	46	46
C	13,5	13,5	10,5	10,5
D1	5	5	4,1	4,1
D2	5	5	5	5
D3	10–15	10–15	8–15	8–15
E	48	48 (68 [1])	36 (48 [1])	36 (48 [1])
F	70	70	48	48
M	5	5	5,2	5,2

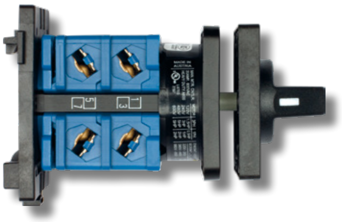
	DHR10 DHR11	DHR11B
A	48	64
B	42	56
C	10,5	13,5
D1	4,1	4,1
D2	5	5
D3	8–15	10–15
E	36	48
F	48	70
M (VE)	3,2	2,5
M (VE22)	1,9	-
M (VF)	3,2	-
M (VF22)	1,9	-

	L350, L351, L630, L631 L1000	L400, L600, L800 L1200, L1600, L2000
A	88	128
B	88	126
C	16	19,3
D1	5,4	7
D2	6	7
D3	13–17	15,5–20
E	68	104
M	27	11,4 [2]

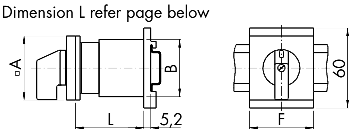
[1] Dimensions for rear mounting panel
[2] L800, L1200 and L1600 = 31,5

Other mountings for Switch type CHR... which are not listed in this chapter, see page from 162

Snap-on base mounting for DIN rail acc. to EN 60715, IP40 — VE1.

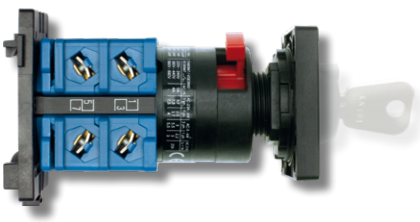


Dimension L refer page below

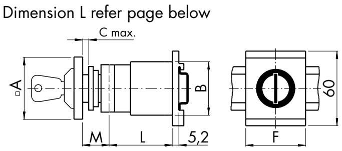


VE1E – Snap-on base mounting for DIN rail acc. to EN 60715. Escutcheon plate is fixed on switch by screws. (Size S0)
(Size S1: Switch of mounting E + S1.M999/D-0031)

	CHR10, CHR11 CHR16	DHR10 DHR11	G20/S
A	48	48	48
B	46	42	46
F	48	48	48



Dimension L refer page below



VE1F – Snap-on base mounting for DIN rail acc. to EN 60715. Escutcheon plate is fixed by Single hole mounting, for use with key-lock devices [1]. (Size S0)

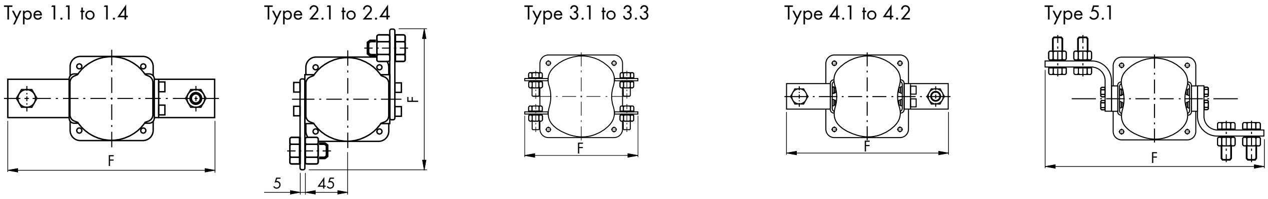
Notice: Suitable key-lock devices see Chapter ***„Optional extras"***

	CHR10, CHR11 CHR16	DHR10 DHR11	G20/S
A	48	48	48
B	46	42	46
F	48	48	48
M	25,2	25,2	25,2

[1] Specify Optional Extras

Position of bolt terminals (Typenumber On request, depending on Switch type and switch program.)

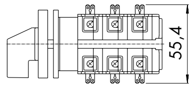
Type 1.1 to 1.4 — Type 2.1 to 2.4 — Type 3.1 to 3.3 — Type 4.1 to 4.2 — Type 5.1



Type	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	4.1	4.2	5.1
Type	L350	L630	L1000		L351	L631			C315 C316	L400 L600		L800 L1200	L1600	L2000
Dimension F	190	220	230	240	138	148	148	148	150	180	208	256	326	326
Ø terminal screw	M12	M16	M16	M16	M12	M16	M16	M16	M12	M12	M16	M16	2xM16	4xM16
Leghth terminal screw	20	30	40	50	20	30	40	50	20	30	40	40	50	50

Dimensions of plug-in connection

DK...-4, DK...-5
(Connection straight 2 x 2,8 mm or 1 x 6,35 mm)



Dimension L

Stages	CA4N CA4N-1	A11 AD11	A25	CHR10 CHR11 CHR16	CHR10B CHR16B	DHR10 DHR11	DHR11B	DK10 DK11	G20	G20S	L350, L351, L630, L631 L1000			L400, L600, L800 L1200, L1600, L2000		
											Please refer types of bolt terminals on this page					
												Double latching mechanism			Double latching mechanism	
												E	ER, VE		E	ER, VE
1	22,4	42,5	43,5	43,5	48,9	43,5	48,9	61	42	59,3	67,5	94,5	92,6	78,6	110,1	107,7
2	30,4	55,2	56,2	57,5	62,9	61	66,4	78,5	53	70,3	100	127	125,1	117,2	148,7	146,3
3	38,4	67,9	68,9	71,5	76,9	78,5	83,9	96	64	81,3	132,5	159,5	157,6	155,8	187,3	184,9
4	46,4	80,6	81,6	85,5	90,9	96	101,4	113,5	75	92,3	165	192	190,1	194,4	225,9	223,5
5	54,4	93,3	94,3	99,5	104,9	113,5	118,9	131	86	103,3	197,5	224,5	222,6	233	264,5	262,1
6	62,4	106	107	113,5	118,9	131	136,4	148,5	97	114,3	230	257	255,1	271,6	303,1	300,7
7	70,4	118,7	119,7	127,5	132,9	148,5	153,9	166	108	125,3	262,5	289,5	287,6	310,2	341,7	339,3
8	78,4	131,4	132,4	141,5	146,9	166	171,4	183,5	119	136,3	295	322	320,1	348,8	380,3	377,9
9	86,4	144,1	145,1	155,5	160,9	183,5	188,9	201	130	147,3	327,5	354,5	352,6	387,4	418,9	416,5
10	-	156,8	157,8	169,5	174,9	201	206,4	218,5	141	158,3	360	387	385,1	426	457,5	455,1
11	-	169,5	170,5	183,5	188,9	218,5	223,9	236	152	169,3	392,5	419,5	417,6	464,6	496,1	493,7
12	-	182,2	183,2	197,5	202,9	236	241,4	253,5	163	180,3	425	452	450,1	503,2	534,7	532,3

[1] Additional length A11C, AD11C, A25C: 8,2 mm

Complex datA-intensive IIoT applications?

- Plug and forget integration into existing infrastructure
- Possible applications as gateway, PLC with CODESYS V3 or router
- Direct OPC UA communication, IoT data distribution via MQTT
- Communication with automation devices, cloud or fog applications
- Rugged, stylish industrial design, wide operating temperature range
- Optional plug-in modules for system expansion
- **Comprehensive certifications** (even for harsh enviroment)
- Various applications such as: JMobile CODESYS

< Back to the catalog directory >

< Back to the catalog directory >

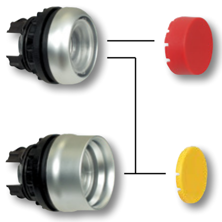
Next >

Front elements

Push buttons non-illuminated

Front element
flush

Front element
extended



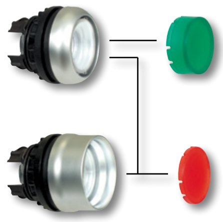
Front plate
extended

Front plate
flush

Push buttons illuminated

Front element
flush

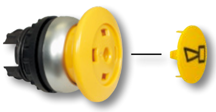
Front element
extended



Front plate
extended

Front plate
flush

Mushroom push-button



Front element
pre-assembled
+
Front plate

Rotary switches

non-illuminated

Front element
pre-assembled

illuminated

Front element
pre-assembled

key operated

Front element
pre-assembled

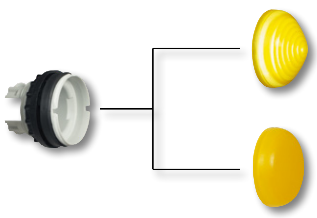
Double-push buttons

Front element
pre-assembled

Emergency-stop/OFF push buttons

Front element
pre-assembled

Pilot lights



Color caps
extended (conical)

Color caps
flush

Solid pilot lights

available with flush or
extended color cap

Potentiometer

incl. resistor

Acoustic device

Contact blocks and LED pilot light assemblies

Coupling
plate

Contact
block

LED pilot
light assembly

LED series
elements

Adapted to your special needs

Front element

- Ergonomical design , Front rings metallic colored or black
- Illuminated elements OFFer excellent brightest and contrast in all light conditions
- Pilot lights with perfect light due to special lenses
- Any inscription, abrasion-resistant by laser
- Latched push buttons and rotary switches are programmable for spring return function
- Mushroom push buttons with large surface
- High protection and food resistance: push buttons und pilot lights IP67/IP69K, double-push buttons und rotary switches IP66
- Available with protection caps for special operating

Legend plate

- For front elements and double-push buttons
- With legend inserts
- Available with lasered or engraved inscriptions

Fixation nut

- Included in delivery of front elements
- Nut key for fixation nuts as accessory available

Coupling plate

- For contact blocks and LED pilot light assemblies
- Max. 3 elements per contact level
- Up to 6 contacts on 2 contact levels are possible

Contact blocks and LED pilot light assemblies

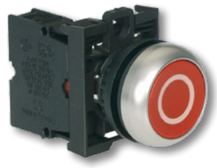
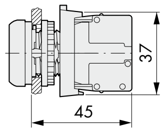
Contact blocks
- Available as N/C and N/O
- High switching capacity, both in AC-15- and DC-13-operation 2 levels possible

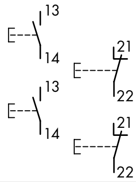
LED pilot light assemblies
- Available in green, red and white
- Long life (100 000 running hours) by especially low power consumption and vibration resistance
- With only 2 voltage ranges the worldwide common applications are fulfilled
- LED series elements for decoupled funtion control are available

Pre-assembled units

Push buttons flush, IP67 / IP69K

non-illuminated

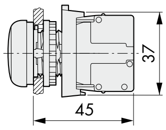





Color	Name	Art. no.
	P.SN-WD0001	2135692
	P.SN-WD0002	2169037
I	P.SN/D/G/X1-K10	2135693
O	P.SN/D/R/X0-K01	2135694

Pilot lights flush, IP67 / IP69K

with LED element

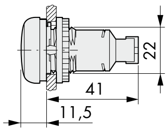



	Color	Name	Art. no.
12 V-30 V AC/DC		P.SN-WD0003	2169038
12 V-30 V AC/DC		P.SN-WD0004	2169039
85 V-264 V AC		P.SN-WD0005	2169040
85 V-264 V AC		P.SN-WD0006	2169041

Solid pilot lights, IP67 / IP69K

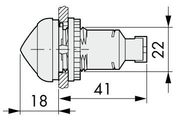
for bulbs, neon bulbs and LEDs up to 2,4 W
with BA 9s lamp socket (without bulb)

flush

Color	Name	Art. no.
	P.SN/LC/G	2169089
	P.SN/LC/R	5000070
	P.SN/LC/Y	2169091
	P.SN/LC/B	2169088
	P.SN/LC/W	2169090

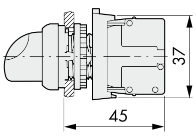
extended (conical)

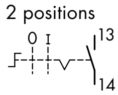
Color	Name	Art. no.
	P.SN/LCH/G	2169093
	P.SN/LCH/R	2169094
	P.SN/LCH/Y	2169096
	P.SN/LCH/B	2169092
	P.SN/LCH/W	2169095


Rotary switches, IP66

non-illuminated, latched
(changeable by coding
pieces to spring return function)

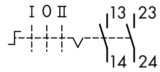



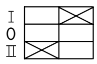
2 positions



Color	Name	Art. no.
	P.SN/WRK-K10	2169109

3 positions

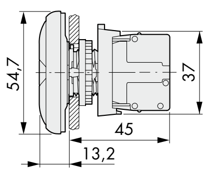


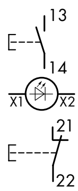


Color	Name	Art. no.
	P.SN/WRK3-K20	2169111

Double-push buttons, IP66

with LED element 85–264 V AC
color cap white (opaque)

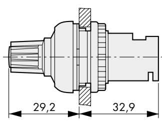





Color	Name	Art. no.
	P.SN/DDL/GR/ X1-X0-K11	2169076


Potentiometer, IP66

3 separate srew terminals
P max. = 0,5 W

kΩ	Name	Art. no.
1	P.SN/R1K	5000806
4,7	P.SN/R4K7	5000808
10	P.SN/R10K	5000805
100	P.SN/R100K	5000804

Compact acoustic device, IP40

without buzzer, BA 9s lamp socket

Color	Name	Art. no.
	P.SN/AMC	5001070

Buzzer for acoustic device

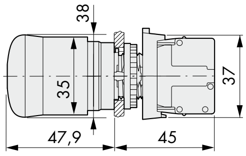
Continuous tone, 18–30 V AC / DC,
83 dB / 10 cm, 18–30 mA,
plus terminal at X1, f = 2300 Hz

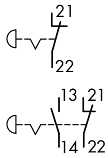
Color	Name	Art. no.
	P.SN/XAM	5001071

Pre-assembled units

Emergency-stop/OFF push buttons, IP67 / IP69K

Fool-proof acc. to ISO 13850 / EN 418,
reset by pulling,
complement max.: 4 contact blocks

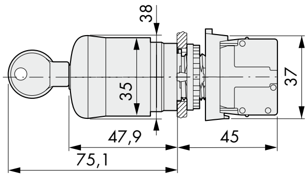


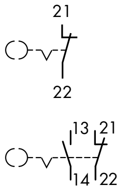


Name	Art. no.
P.SN/PV-K01	**2169098**
P.SN/PV-K11	**2169099**

Emergency-stop/OFF push buttons, IP67 / IP69K

Reset by key operation,
1 key, locking MS1

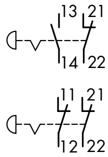




Name	Art. no.
P.SN/PVS-K01	**2169102**
P.SN/PVS-K11	**2233134**

Emergency-stop/OFF push buttons enclosed, IP67 / IP69K

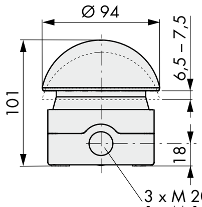
Enclosure yellow–black,
reset by pulling,
complement max.: 3 contact blocks

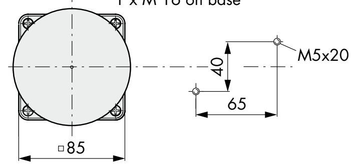


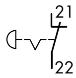
Name	Art. no.
P.SN/PV-KC11-IY	**5000800**
P.SN/PV-KC02-IY	**5000799**

Emergency-stop/OFF push buttons enclosed, IP67 / IP69K

Foot and palm switch,
enclosure yellow–black,
reset by pulling,
complement max.: 3 contact blocks







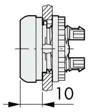
Name	Art. no.
P.FT/R-V-KC01-IY	**5000721**

Pre-assembled units

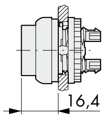
Front elements

Push buttons non-illuminated
IP67 / IP69K

flush



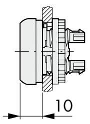
extended



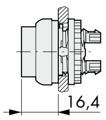
Color	Name	Art. no.	Name	Art. no.
	spring return, flush		*spring return, extended*	
	P.SN/D/S	**5000738**	P.SN/DH/S	**On request**
	P.SN/D/W	**2169074**	P.SN/DH/W	**On request**
	P.SN/D/R	**5000737**	P.SN/DH/R	**2169078**
	P.SN/D/G	**5000059**	P.SN/DH/G	**2169077**
	P.SN/D/Y	**2169075**	P.SN/DH/Y	**2235198**
	P.SN/D/B	**2169071**	P.SN/DH/B	**2326531**
	P.SN/D/R/X0	**2169073**	P.SN/DH/R/X0	**2219211**
	P.SN/D/G/X1	**2169072**	P.SN/DH/G/X1	**On request**
	–	**–**	P.SN/DH/W/X1	**2169079**
	–	**–**	P.SN/DH/S/X0	**On request**

Push buttons illuminated
IP67 / IP69K

flush



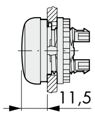
extended



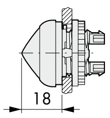
Color	Name	Art. no.	Name	Art. no.	Name	Art. no.
	spring return, flush		*latched, flush*		*spring return, extended*	
	P.SN/DL/W	**2169082**	P.SN/DRL/W	**2169087**	P.SN/DLH/W	**2169086**
	P.SN/DL/R	**5000752**	P.SN/DRL/R	**2232765**	P.SN/DLH/R	**2169085**
	P.SN/DL/G	**5000751**	P.SN/DRL/G	**2232613**	P.SN/DLH/G	**2169084**
	P.SN/DL/Y	**2169083**	P.SN/DRL/Y	**5001291**	P.SN/DLH/Y	**5001103**
	P.SN/DL/B	**5000750**	P.SN/DRL/B	**2221166**	P.SN/DLH/B	**5001102**
	P.SN/DL/R/X0	**2169081**				
	P.SN/DL/G/X1	**2169080**				

Pilot lights
IP67 / IP69K

flush



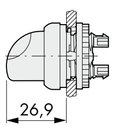
extended (conical)



	flush		*extended (conical)*	
	P.SN/L/W	**5000069**	P.SN/LH/W	**5000795**
	P.SN/L/R	**5000150**	P.SN/LH/R	**5000077**
	P.SN/L/G	**5000782**	P.SN/LH/G	**5000076**
	P.SN/L/Y	**5000784**	P.SN/LH/Y	**5000796**
	P.SN/L/B	**5000781**	P.SN/LH/B	**2169097**

Rotary switches
IP66

non-illuminated

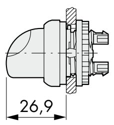


	2 spring return positions		*2 latching positions* [1]		*3 spring return positions*		*3 spring return positions*	
	P.SN/WK	**5000814**	P.SN/WRK	**5000821**	P.SN/WK3	**5000815**	P.SN/WRK3	**5000822**

[1] Changeable by coding pieces from latching (60° switching angle) to spring return function (40° switching angle).

Rotary switches
IP66

illuminated



Color	Name	Art. no.	Name	Art. no.
	2 Stellungen tastend		*2 Stellungen rastend* [1]	
	P.SN/WLK/W	**5000817**	P.SN/WRLK/W	**5000826**
	P.SN/WLK/R	**On request**	P.SN/WRLK/R	**5000825**
	P.SN/WLK/G	**On request**	P.SN/WRLK/G	**5000824**
	P.SN/WLK/Y	**5000818**	P.SN/WRLK/Y	**5000827**
	P.SN/WLK/B	**On request**	P.SN/WRLK/B	**5000823**

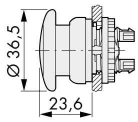
	3 Stellungen tastend		*3 Stellungen rastend* [1]	
	P.SN/WLK3/W	**5000820**	P.SN/WRLK3/W	**5000831**
	P.SN/WLK3/R	**On request**	P.SN/WRLK3/R	**5000830**
	P.SN/WLK3/G	**5000819**	P.SN/WRLK3/G	**5000829**
	P.SN/WLK3/Y	**On request**	P.SN/WRLK3/Y	**5000832**
	P.SN/WLK3/B	**On request**	P.SN/WRLK3/B	**5000828**

[1] Changeable by coding pieces from latching (60° switching angle) to spring return function (40° switching angle).

Front elements

Mushroom push buttons, IP67 / IP69K

without front plate

Color	Name	Art. no.	Name	Art. no.
	spring return		*latched*	
	P.SN/DP/S/X	**5000755**	P.SN/DRP/S/X	**5000761**
	P.SN/DP/R/X	**5000754**	P.SN/DRP/R/X	**5000760**
	P.SN/DP/G/X	**5000753**	P.SN/DRP/G/X	**5000759**
	P.SN/DP/Y/X	**5000756**	P.SN/DRP/Y/X	**5000762**

front plate for mushroom push buttons

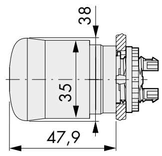
	P.SN/XDP/W	**5000939**
	P.SN/XDP/S	**5000931**
	P.SN/XDP/R	**5000927**
	P.SN/XDP/G	**5000923**
	P.SN/XDP/Y	**5000940**

Inscrepted front plates refer page 229

Emergency-stop/OFF push buttons

IP67 / IP69K (turn), IP66 / IP69K (pull)
fool-proof acc. to ISO 13 850 / EN418

non-illuminated

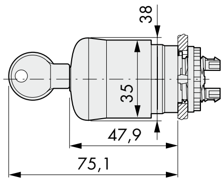



Color	Name	Art. no.
	P.SN/PV (reset by pulling)	**5000798**
	P.SN/PVT (reset by turning)	**5000079**

illuminated

	P.SN/PVL (reset by pulling)	**5000801**
	P.SN/PVLT (reset by turning)	**5000802**

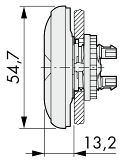
Reset by key operation,
1 key, locking MS1

	P.SN/PVS	**5000803**

Double-push buttons, IP66

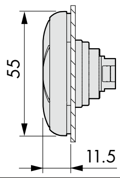
Color cap white (opaque)

Color	Name	Art. no.
	P.SN/DDL/GR	**5000741**
I / O	P.SN/DDL/GR/X1-X0	**5000061**
START / STOP	P.SN/DDL/GR/GB1-GB0	**5000742**
↑ / ↓	P.SN/DDL/S/X7-X7	**5000744**

4-position-push buttons, IP66

4 contacts in combination
with coupling plate P SN/A4

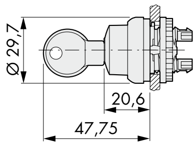



Color	Name	Art. no.
black	P.SN/D4/S/X7	**On request**

Rotary switches key operated, IP66

switching angle 60°, latched,
changeable by coding pieces
to spring return function (40°
switching angle)

1 key, locking MS1

	2 positions	*3 positions*
The key is removable in all switch positions	P.SN/WRS **5000833**	P.SN/WRS3 **5000834**
The key is removable only in O-position.	P.SN/WRS/A1 **2169112**	P.SN/WRS3/A1 **2169113**

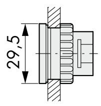
Reset units, IP67 / IP69K

non-illuminated
blue

Inscription	Name	Art. no.
RESET	P.SN/DZ/B/GB14	**5000763**
R	P.SN/DZ/B/X6	**5000764**

Blank cover, IP67 / IP69K

for surplus control positions

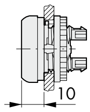



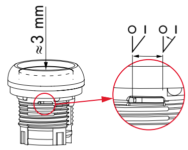
Color	Name	Art. no.
grey	P.SN/B	**5000735**
black	P.SB/B	**5000723**

Front element components

Push buttons non-illuminated, IP67 / IP69K, without front plate

with flush Front ring

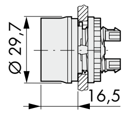




Changeable by coding pieces to spring return function

Name	Art. no.
spring return	
P.SN/D/X	**5000060**
latched	
P.SN/DR/X	**5000757**

with extended Front ring



Name	Art. no.
spring return	
P.SN/DG/X	**5000748**

Front plates for push buttons non-illuminated

flush

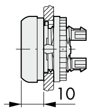
extended

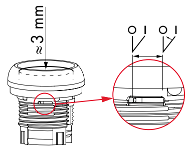
Color	Name	Art. no.
● black	P.SN/XD/S	**5000083**
○ white	P.SN/XD/W	**5000120**
● red	P.SN/XD/R	**5000847**
● green	P.SN/XD/G	**5000843**
● yellow	P.SN/XD/Y	**5000875**
● blue	P.SN/XD/B	**5000840**
● black	P.SN/XDH/S	**On request**
○ white	P.SN/XDH/W	**5000884**
● red	P.SN/XDH/R	**5000878**
● green	P.SN/XDH/G	**5000877**
● yellow	P.SN/XDH/Y	**5000886**
● blue	P.SN/XDH/B	**5000876**

Inscrepted front plates refer page 236

Push buttons illuminated, IP67 / IP69K, without front plate

with flush Front ring

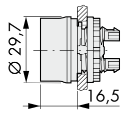




Changeable by coding pieces to spring return function

Name	Art. no.
spring return	
P.SN/DL/X	**5000062**
latched	
P.SN/DRL/X	**5000758**

with extended Front ring



Name	Art. no.
spring return	
P.SN/DGL/X	**5000749**

Front plates für Push buttons illuminated

flush

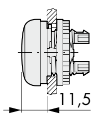
extended

Color	Name	Art. no.
○ white	P.SN/XDL/W	**5000090**
● red	P.SN/XDL/R	**5000892**
● green	P.SN/XDL/G	**5000889**
● yellow	P.SN/XDL/Y	**5000093**
● blue	P.SN/XDL/B	**5000087**
○ white	P.SN/XDLH/W	**5000914**
● red	P.SN/XDLH/R	**5000912**
● green	P.SN/XDLH/G	**5000910**
● yellow	P.SN/XDLH/Y	**5000922**
● blue	P.SN/XDLH/B	**5000909**

Inscrepted front plates refer page 236

Pilot lights

IP67 / IP69K, flush, without color cap



Name	Art. no.
P.SN/L/X	**5000783**

Color caps for pilot lights

Color	Name	Art. no.
○ white	P.SN/XL/W	**5000097**
● red	P.SN/XL/R	**5000096**
● green	P.SN/XL/G	**5000095**
● yellow	P.SN/XL/Y	**5000098**
● blue	P.SN/XL/B	**5000094**

Inscrepted front plates refer page 236

Coupling plates, lamps and contact blocks

Coupling plate

for 3 contact or lamp blocks

Configuration

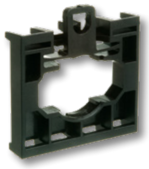
1 / 4	3 / 6	2 / 5

for 1. level

for 2. level

Name	Art. no.
P.SN/A	5000058

or 4 contact blocks
(only with 4 position push-button)



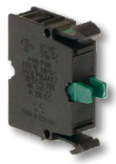
Configuration

4	3	2	1

P.SN/A4	5000734

Contact blocks

front mounting



1. number
Configuration of
fixed adapter

1 / 4	3 / 6	2 / 5

1. serie

2. serie

2. number of contact element

3 4	P.SN/K10	5000068
1 2	P.SN/K01	5000067

Safety function by direct opening action acc. to IEC/EN 60947-5-1

for Plastic enclosures

1. number
Configuration of
fixed adapter

2	3	1

3 4	P.SN/KC10	5000780
1 2	P.SN/KC01	5000779

Safety function by direct opening action acc. to IEC/EN 60947-5-1

LED lamp element

front mounting

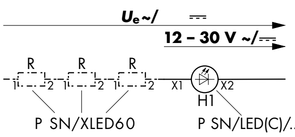
for Plastic enclosures

	Color	Name	Art. no.
12 V–30 V AC/DC	white	P.SN/LED/W	5000073
	red	P.SN/LED/R	5000072
	green	P.SN/LED/G	5000071
	blue	P.SN/LED/B	5000786
85 V–264 V AC	white	P.SN/LED230/W	5000074
	red	P.SN/LED230/R	5000788
	green	P.SN/LED230/G	5000787
	blue	P.SN/LED230/B	5001121
12 V–30 V AC/DC	white	P.SN/LEDC/W	5000791
	red	P.SN/LEDC/R	5000790
	green	P.SN/LEDC/G	5000789
	blue	P.SN/LEDC/B	5001122
85 V–264 V AC	white	P.SN/LEDC230/W	5000794
	red	P.SN/LEDC230/R	5000793
	green	P.SN/LEDC230/G	5000792
	blue	P.SN/LEDC230/B	5001123

LED serie element

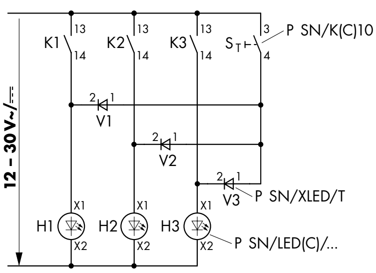
front and base mounting

Resistor element for 42 V–60 V AC/DC for pilot light assemblies 12 V–30 V AC/DC	P.SN/XLED60	5000971
LED test elements for decoupled operational test for connecting to:		
12 V–30 V AC/DC	P.SN/XLED/T	5000968
85 V–264 V AC/DC	P.SN/XLED230/T	5000970

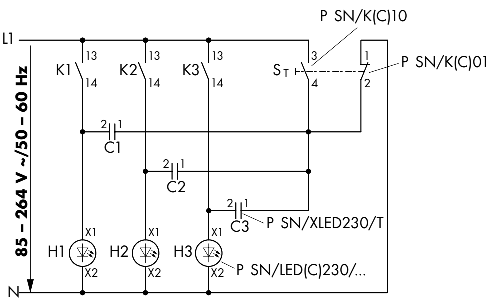


P SN/XLED60	1 x	2 x	3 x	4 x	5 x	6 x	7 x
U_e ≤	60 V	90 V	120 V	150 V	180 V	210 V	240 V

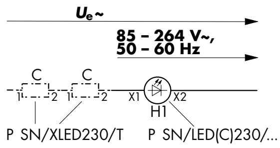
P SN/XLED/T



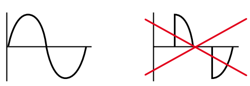
P SN/XLED/T



P SN/XLED230/T



P SN/XLED230/T	1 x	2 x
U_e ≤	400 V AC	500 V AC



Plastic enclosures, IP67 / IP69 (totally insulated, lid screws made of stainless steel)

yellow / black

one control position
complement max.: 3 contact blocks

Name	Art. no.
P.SN/IY1	**5000778**

grey / black

one control position
complement max.: 3 contact blocks

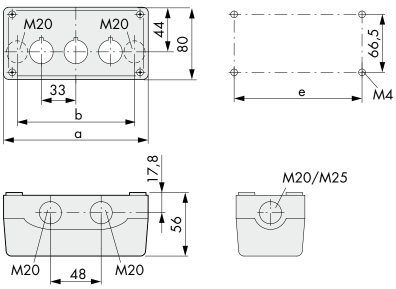
P.SN/I1	**5000066**

grey / black

2–6 control positions
complement max.:
3 contact blocks per control position

Control positions	Name	Art. no.
2	P.SN/I2	**5000773**
3	P.SN/I3	**5000774**
4	P.SN/I4	**5000775**
6*	P.SN/I6	**5000776**

*IP66



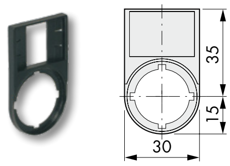
Type	a	b	e	Bushes		
P.SN/IY1	72	42,6	58,5	2xM16	3xM20	2xM25
P.SN/I1	72	42,6	58,5	2xM16	3xM20	2xM25
P.SN/I2	120	85,6	106,5	2xM20	3xM20	2xM25
P.SN/I3	153	118,6	139,5	2xM20	2xM25	4xM20
P.SN/I4	186	151,6	172,5	2xM20	2xM25	4xM20
P.SN/I6	252	217,6	238,5	2xM20	2xM25	4xM20

Notice:
Enclosure is suitable for Mounting of Switch type CA4 with 1 or 2 contacts or CA4N with max. 4 contacts of mounting FS1 and FS2.

Accessory

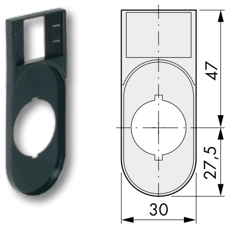
Legend carrier, IP66 (without plate)

for push buttons



Name	Art. no.
P.SB/ST/X	**5000057**

for double-push buttons



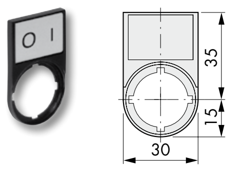
P.SB/STDD/X	**5000057**

Face plates

for legend carrier

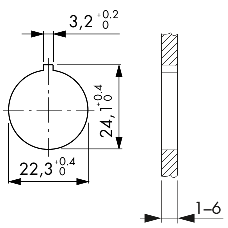
P.SN/XST	**5000099**

Legend plates, IP66 (complete standard unit)

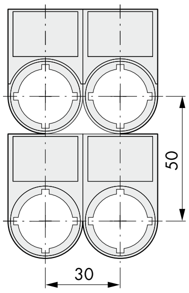


Inscription	Name	Art. no.	Inscription	Name	Art. no.
O I	P.SB/ST/X88	**2168996**	FAULT	P.SB/ST/GB8	**2168995**
O I	P.SB/ST/X89	**2168997**	Betrieb	P.SB/ST/D7	**2168985**
I O II	P.SB/ST/X93	**2168998**	RUN	P.SB/ST/GB7	**2168994**
STOP	P.SB/ST/GB0	**2168987**	HAND AUTO	P.SB/ST/D11	**2168981**
START	P.SB/ST/GB1	**2168988**	MAN. AUTO	P.SB/ST/GB11	**2168990**
AUS	P.SB/ST/D5	**2168983**	Aus Ein	P.SB/ST/D10	**2168980**
OFF	P.SB/ST/GB5	**2168992**	OFF ON	P.SB/ST/GB10	**2168989**
EIN	P.SB/ST/D6	**2168984**	HAND 0 AUTO	P.SB/ST/D12	**2168982**
ON	P.SB/ST/GB6	**2168993**	MAN. 0 AUTO	P.SB/ST/GB12	**2168991**
Störung	P.SB/ST/D8	**2168986**			

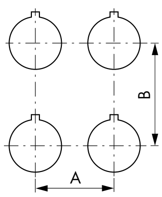
Mounting drilling with slot



Grid dimension acc. to IEC/EN 60947

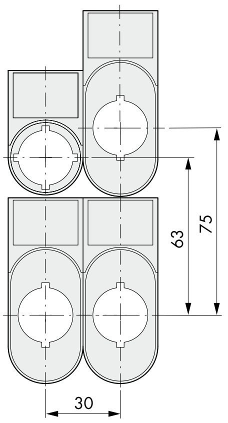


Grid dimension for different combinations

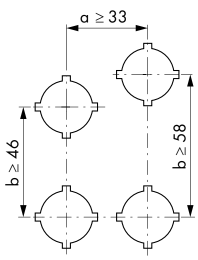


Type	A≥	B≥
P.SN/...(IEC/EN 60947)	30	50
P.SN/...	30	40
P.SN/D... + P.SN/T/D	33	40
P.SN/D(R)P...	38	40
P.SN/PV...	38	40
P.SN/PV(L...)(S...) + P.SN/D...	33	40
P.SN/DDL...	30	55
P.SN/DDL... + P.SN/T/DD	33	58
P SB/ST 30	30	50
P SB/STDD	30	75
P.SN/XAK...	90	90
P.SN/XZK...	33	52
P.SN/XBK...	60	60
P.SN/XYK...	50	50

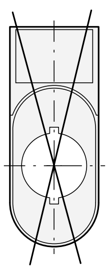
Grid dimension for P.SN/DD...



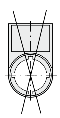
Grid dimension for P.SN/DD... with protection cap P.SN/T/DD



Protection cap and protective shroud cannot be combined with legend carrier



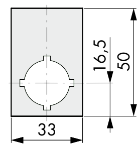
Protection cap cannot be combined with legend carrier



Accessory

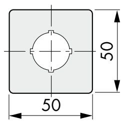
Emergency-stop plates IP66

rectangular



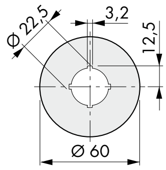
Inscription	Name	Art. no.
NOT-HALT	P.SN/XZK1/D99	**5001124**
NOT-AUS	P.SN/XZK/D99	**5000980**
EMERGENCY-STOP	P.SN/XZK/GB99	**5000981**

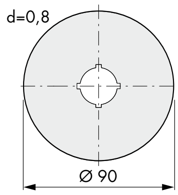
square, quadrilingual



Inscription	Name	Art. no.
NOT-HALT	P.SN/XYK11	**5001125**
NOT-AUS	P.SN/XYK1	**5000979**

round, quadrilingual

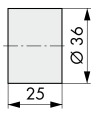




Ø	Inscription	Name	Art. no.
60	NOT-HALT	P.SN/XBK11	**5001127**
90	NOT-HALT	P.SN/XAK11	**5001126**
60	NOT-AUS	P.SN/XBK1	**5000080**
90	NOT-AUS	P.SN/XAK1	**5000986**

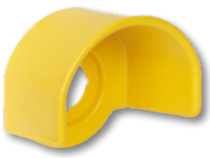
Protective shrouds

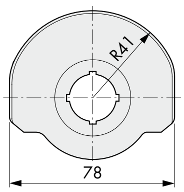
IP66
- protection against accidental operation
- for push buttons and rotary switches
- cannot be combined with legend plates

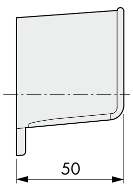


Name	Art. no.
P.SN/XGWK	**5000942**

IP65
- yellow, for Emergency-stop/ OFF push buttons
- cannot be combined with legend plates



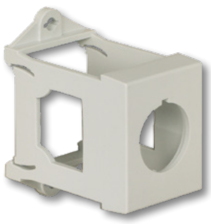


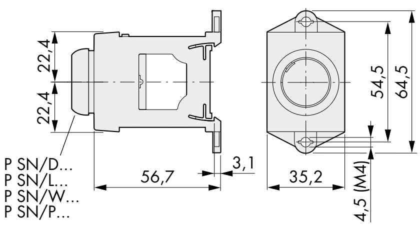


P.SN/XGPV	**5000941**

DIN rail adapter

for DIN rails acc. to EN 60715
for front mounted units





P.SN/IVS	**5000777**

Accessory

Bulb extractor

Name	Art. no.
P.SN/LGL	**5001340**

Nut key

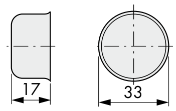
for push buttons,
pilot lights
and rotary switches

Name	Art. no.
P.SN/MS	**5000078**

Protection caps

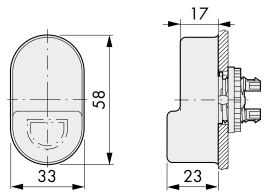
IP67, transparent, for aggravating environments
(not in food areas), cannot be combined with legend plates

for push buttons, flush
and pilot lights, flush



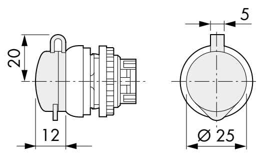
Name	Art. no.
P.SN/T/D	**5000810**

for double-push buttons



Name	Art. no.
P.SN/T/DD	**5000811**

for rotary switches key operated
prevents dirt and dust from getting
into the keyhole (not in food areas)



Name	Art. no.
P.SN/XWS	**5000978**

Fixation nut

for push buttons, pilot lights and rotary switches

Name	Art. no.
P.SN/GR	**5000772**

Spare key

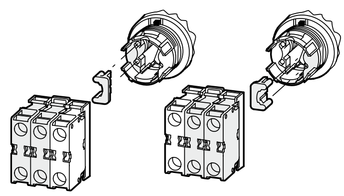
for locking MS1

Name	Art. no.
P.SN/ES/MS1	**5000765**

Rod link

for operating the middle contact block
of non-illuminated rotary switches with 3 positions

For the middle
contact block of
rotary switches
with 2 or 3
positions

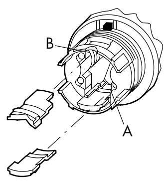


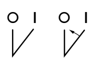
Name	Art. no.
P.SN/XW	**5000977**

Coding pieces

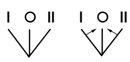
for rotary switches to convert the latched
function into spring return function
(1 kit = 2 pieces)

Rotary switches





P.SN/XC/Y in B



P.SN/XC/Y in A and B

Key is removable
in spring return position

Name	Art. no.
P.SN/XC/Y	**5000839**

Front plates for push buttons

Color	Inscription	Meaning	non-illuminated flush		non-illuminated extended		illuminated flush		illuminated extended	
			Name	Art. no.	Name	Art. no.	Name	Art. no.	Name	Art. no.
⚫	Zu		P.SN/XD/S/D2	**5000855**	P.SN/XDH/S/D2	On request				
	Auf		P.SN/XD/S/D3	**5000856**	P.SN/XDH/S/D3	On request				
	Ab		P.SN/XD/S/D4	**5000857**	P.SN/XDH/S/D4	On request				
⚪	Zu						P.SN/XDL/W/D2	**4001101**	P.SN/XDLH/W/D2	On request
	Auf						P.SN/XDL/W/D3	**5001042**	P.SN/XDLH/W/D3	On request
	Ab						P.SN/XDL/W/D4	**5001043**	P.SN/XDLH/W/D4	On request
🔴	Aus		P.SN/XD/R/D5	**5000848**	P.SN/XDH/R/D5	On request	P.SN/XDL/R/D5	**5001045**	P.SN/XDLH/R/D5	On request
⚪	Ein						P.SN/XDL/W/D6	**5001044**	P.SN/XDLH/W/D6	On request
⚫	Ein		P.SN/XD/S/D6	**5000858**	P.SN/XDH/S/D6	On request				
🔵	Entsperren		P.SN/XD/B/D14	**5001000**	P.SN/XDH/B/D14	On request	P.SN/XDL/B/D14	On request	P.SN/XDLH/B/D14	On request
⚪	Vorwärts						P.SN/XDL/W/D15	**5001270**	P.SN/XDLH/W/D15	**5000915**
	Rückwärts						P.SN/XDL/W/D16	**5001271**	P.SN/XDLH/W/D16	**5000916**
	Heben						P.SN/XDL/W/D17	On request	P.SN/XDLH/W/D17	**5000917**
	Senken						P.SN/XDL/W/D18	On request	P.SN/XDLH/W/D18	**5000918**
⚫	Vorwärts		P.SN/XD/S/D15	**5001160**	P.SN/XDH/S/D15	On request				
	Rückwärts		P.SN/XD/S/D16	**5000852**	P.SN/XDH/S/D16	On request				
	Heben		P.SN/XD/S/D17	**5000853**	P.SN/XDH/S/D17	On request				
	Senken		P.SN/XD/S/D18	**5000854**	P.SN/XDH/S/D18	On request				
🔴	STOP		P.SN/XD/R/GB0	**5000849**	P.SN/XDH/R/GB0	**5000879**	P.SN/XDL/R/GB0	**5000893**	P.SN/XDLH/R/GB0	**5000913**
⚪	STOP						P.SN/XDL/W/GB0	**5000896**	P.SN/XDLH/W/GB0	On request
⚫	STOP		P.SN/XD/S/GB0	**5001272**	P.SN/XDH/S/GB0	On request				
🟢	START		P.SN/XD/G/GB1	**5000844**	P.SN/XDH/G/GB1	On request	P.SN/XDL/G/GB1	**5000890**	P.SN/XDLH/G/GB1	**5000911**
⚪	START						P.SN/XDL/W/GB1	**5000897**	P.SN/XDLH/W/GB1	On request
	CLOSE						P.SN/XDL/W/GB2	On request	P.SN/XDLH/W/GB2	On request
	UP						P.SN/XDL/W/GB3	**5001110**	P.SN/XDLH/W/GB3	On request
	DOWN						P.SN/XDL/W/GB4	**5001112**	P.SN/XDLH/W/GB4	On request
⚪	START		P.SN/XD/W/GB1	On request	P.SN/XDH/W/GB1	On request				
⚫	CLOSE		P.SN/XD/S/GB2	On request	P.SN/XDH/S/GB2	On request				
	UP		P.SN/XD/S/GB3	**5000861**	P.SN/XDH/S/GB3	On request				
	DOWN		P.SN/XD/S/GB4	**5000862**	P.SN/XDH/S/GB4	On request				
🔴	OFF		P.SN/XD/R/GB5	**5000850**	P.SN/XDH/R/GB5	On request	P.SN/XDL/R/GB5	On request	P.SN/XDLH/R/GB5	On request
⚪	ON						P.SN/XDL/W/GB6	**5000898**	P.SN/XDLH/W/GB6	**5000919**
	TEST						P.SN/XDL/W/GB9	**5001032**	P.SN/XDLH/W/GB9	On request
⚫	ON		P.SN/XD/S/GB6	**5000863**	P.SN/XDH/S/GB6	On request				
	TEST		P.SN/XD/S/GB9	**5000864**	P.SN/XDH/S/GB9	On request				
🔵	RESET		P.SN/XD/B/GB14	**5000841**	P.SN/XDH/B/GB14	On request	P.SN/XDL/B/GB14	**5000887**	P.SN/XDLH/B/GB14	On request
⚪	FORWARD						P.SN/XDL/W/GB15	On request	P.SN/XDLH/W/GB15	On request
	REVERSE						P.SN/XDL/W/GB16	On request	P.SN/XDLH/W/GB16	On request
	RAISE						P.SN/XDL/W/GB17	**5001072**	P.SN/XDLH/W/GB17	On request
	LOWER						P.SN/XDL/W/GB18	**5001073**	P.SN/XDLH/W/GB18	On request
⚫	FORWARD		P.SN/XD/S/GB15	**5000859**	P.SN/XDH/S/GB15	On request				
	REVERSE		P.SN/XD/S/GB16	**5000860**	P.SN/XDH/S/GB16	On request				
	RAISE		P.SN/XD/S/GB17	**5001129**	P.SN/XDH/S/GB17	On request				
	LOWER		P.SN/XD/S/GB18	**5001128**	P.SN/XDH/S/GB18	On request				
🔴	O	Stopp	P.SN/XD/R/X0	**5000082**	P.SN/XDH/R/X0	**5000880**	P.SN/XDL/R/X0	**5000089**	P.SN/XDLH/R/X0	On request
⚪	O	Stopp					P.SN/XDL/W/X0	**5000091**	P.SN/XDLH/W/X0	On request
⚫	O	Stopp	P.SN/XD/S/X0	**5000865**	P.SN/XDH/S/X0	**5001033**				
🟢	I	Start	P.SN/XD/G/X1	**5000081**	P.SN/XDH/G/X1	**5001040**	P.SN/XDL/G/X1	**5000088**	P.SN/XDLH/G/X1	On request
⚪	I	Start					P.SN/XDL/W/X1	**5000092**	P.SN/XDLH/W/X1	**5001230**
⚫	I	Start	P.SN/XD/S/X1	**5000866**	P.SN/XDH/S/X1	**5000882**				
⚪	I	Start	P.SN/XD/W/X1	**5000085**	P.SN/XDH/W/X1	**5000885**				
🟢	II	Start	P.SN/XD/G/X2	**5000846**	P.SN/XDH/G/X2	On request	P.SN/XDL/G/X2	**5000891**	P.SN/XDLH/G/X2	On request
⚪	II	Start					P.SN/XDL/W/X2	**5000900**	P.SN/XDLH/W/X2	On request
⚫	II	Start	P.SN/XD/S/X2	**5001310**	P.SN/XDH/S/X2	On request				
⚪	+	Increase					P.SN/XDL/W/X4	**5000901**	P.SN/XDLH/W/X4	On request
	-	Decrease					P.SN/XDL/W/X5	**5000902**	P.SN/XDLH/W/X5	On request
⚫	+	Increase	P.SN/XD/S/X4	**5000084**	P.SN/XDH/S/X4	On request				
	-	Decrease	P.SN/XD/S/X5	**5000140**	P.SN/XDH/S/X5	On request				
🔵	R	Reset	P.SN/XD/S/X6	On request	P.SN/XDH/S/X6	On request	P.SN/XDL/B/X6	**5000888**	P.SN/XDLH/B/X6	**5001046**
⚫	↑	Guide motion	P.SN/XD/S/X7	**5000872**	P.SN/XDH/S/X7	**5000883**				
	↖	Guide motion	P.SN/XD/S/X8	**5001232**	P.SN/XDH/S/X8	On request				
		Hand-control	P.SN/XD/S/X9	**5000873**	P.SN/XDH/S/X9	On request				
		Automatic cycle	P.SN/XD/S/X10	On request	P.SN/XDH/S/X10	On request				
		Inching	P.SN/XD/S/X11	On request	P.SN/XDH/S/X11	On request				
		Disengaging	P.SN/XD/S/X12	**5000867**	P.SN/XDH/S/X12	On request				
		Unlocking	P.SN/XD/S/X13	**5000868**	P.SN/XDH/S/X13	On request				
		Tighten	P.SN/XD/S/X14	**5000869**	P.SN/XDH/S/X14	On request				
		Release	P.SN/XD/S/X15	On request	P.SN/XDH/S/X15	On request				
		Liquid	P.SN/XD/S/X16	**5000870**	P.SN/XDH/S/X16	On request				
		Horn	P.SN/XD/S/X17	**5000871**	P.SN/XDH/S/X17	**5000882**				
⚪	↑	Guide motion					P.SN/XDL/W/X7	**5000903**	P.SN/XDLH/W/X7	**5000921**
	↖	Guide motion					P.SN/XDL/W/X8	On request	P.SN/XDLH/W/X8	On request
		Hand-control					P.SN/XDL/W/X9	**5000904**	P.SN/XDLH/W/X9	On request
		Automatic cycle					P.SN/XDL/W/X10	**5000899**	P.SN/XDLH/W/X10	On request
		Inching					P.SN/XDL/W/X11	**5001420**	P.SN/XDLH/W/X11	On request
		Disengaging					P.SN/XDL/W/X12	On request	P.SN/XDLH/W/X12	On request
		Unlocking					P.SN/XDL/W/X13	**5001240**	P.SN/XDLH/W/X13	On request
		Tighten					P.SN/XDL/W/X14	**5001241**	P.SN/XDLH/W/X14	On request
		Release					P.SN/XDL/W/X15	On request	P.SN/XDLH/W/X15	On request
		Liquid					P.SN/XDL/W/X16	**5001250**	P.SN/XDLH/W/X16	On request
		Horn					P.SN/XDL/W/X17	**5001190**	P.SN/XDLH/W/X17	**5000920**

🔴 OFF
⚪ ON
⚫ ON

Front elements

Front plates for mushroom push buttons

Color	Inscription	Meaning	non-illuminated Name	Art. no.
⚫	Zu		P.SN/XDP/S/D2	**5000934**
	Auf		P.SN/XDP/S/D3	**5000935**
	Ab		P.SN/XDP/S/D4	On request
🔴	Aus		P.SN/XDP/R/D5	**5000928**
⚫	Ein		P.SN/XDP/S/D6	**5000936**
	Vorwärts		P.SN/XDP/S/D15	**5000932**
	Rückwärts		P.SN/XDP/S/D16	**5000933**
	Heben		P.SN/XDP/S/D17	On request
	Senken		P.SN/XDP/S/D18	On request
🔴	STOP		P.SN/XDP/R/GB0	**5000929**
⚫	STOP		P.SN/XDP/S/GB0	On request
🟢	START		P.SN/XDP/G/GB1	**5000924**
⚪	START		P.SN/XDP/W/GB1	On request
⚫	CLOSE		P.SN/XDP/S/GB2	On request
	UP		P.SN/XDP/S/GB3	On request
	DOWN		P.SN/XDP/S/GB4	On request
🔴	OFF		P.SN/XDP/R/GB5	On request
⚫	ON		P.SN/XDP/S/GB6	On request
	TEST		P.SN/XDP/S/GB9	**5000937**
	FORWARD		P.SN/XDP/S/GB15	On request
	REVERSE		P.SN/XDP/S/GB16	On request
	RAISE		P.SN/XDP/S/GB17	On request
	LOWER		P.SN/XDP/S/GB18	On request
🔴	O	Stopp	P.SN/XDP/R/X0	**5000930**
⚫	O	Stopp	P.SN/XDP/S/X0	On request
🟢	I	Start	P.SN/XDP/G/X1	**5000925**
⚫	I	Start	P.SN/XDP/S/X1	On request
⚪	I	Start	P.SN/XDP/W/X1	On request
🟢	II	Start	P.SN/XDP/G/X2	**5000926**
⚫	II	Start	P.SN/XDP/S/X2	On request
	+	Increase	P.SN/XDP/S/X4	On request
	-	Decrease	P.SN/XDP/S/X5	On request
	↑	Guide motion	P.SN/XDP/S/X7	On request
	↖	Guide motion	P.SN/XDP/S/X8	On request
		Hand-control	P.SN/XDP/S/X9	On request
		Automatic cycle	P.SN/XDP/S/X10	On request
		Inching	P.SN/XDP/S/X11	**5001200**
		Disengaging	P.SN/XDP/S/X12	On request
		Unlocking	P.SN/XDP/S/X13	On request
		Tighten	P.SN/XDP/S/X14	On request
		Release	P.SN/XDP/S/X15	On request
		Liquid	P.SN/XDP/S/X16	On request
		Horn	P.SN/XDP/S/X17	**5000938**

Color caps for pilot lights

Color	Inscription	Meaning	transparent Name	Art. no.
⚪	Zu		P.SN/XL/W/D2	On request
	Auf		P.SN/XL/W/D3	On request
	Ab		P.SN/XL/W/D4	On request
🔴	Aus		P.SN/XL/R/D5	**5000947**
⚪	Ein		P.SN/XL/W/D6	**5000952**
	Vorwärts		P.SN/XL/W/D15	On request
	Rückwärts		P.SN/XL/W/D16	On request
	Heben		P.SN/XL/W/D17	On request
	Senken		P.SN/XL/W/D18	On request
🔴	STOP		P.SN/XL/R/GB0	On request
⚪	STOP		P.SN/XL/W/GB0	On request
🟢	START		P.SN/XL/G/GB1	**5000943**
⚪	START		P.SN/XL/W/GB1	On request
	CLOSE		P.SN/XL/W/GB2	On request
	UP		P.SN/XL/W/GB3	On request
	DOWN		P.SN/XL/W/GB4	On request
🔴	OFF		P.SN/XL/R/GB5	**5000948**
⚪	ON		P.SN/XL/W/GB6	**5000955**
	TEST		P.SN/XL/W/GB9	On request
	FORWARD		P.SN/XL/W/GB15	**5000953**
	REVERSE		P.SN/XL/W/GB16	**5000954**
	RAISE		P.SN/XL/W/GB17	On request
	LOWER		P.SN/XL/W/GB18	On request
🔴	O	Stopp	P.SN/XL/R/X0	**5000951**
⚪	O	Stopp	P.SN/XL/W/X0	**5000956**
🟢	I	Start	P.SN/XL/G/X1	**5000946**
⚪	I	Start	P.SN/XL/W/X1	**5000957**
🟢	II	Start	P.SN/XL/G/X2	On request
⚪	II	Start	P.SN/XL/W/X2	On request
	+	Increase	P.SN/XL/W/X4	On request
	-	Decrease	P.SN/XL/W/X5	On request
	↑	Guide motion	P.SN/XL/W/X7	On request
	↖	Guide motion	P.SN/XL/W/X8	On request
		Hand-control	P.SN/XL/W/X9	**5000959**
		Automatic cycle	P.SN/XL/W/X10	On request
		Inching	P.SN/XL/W/X11	On request
		Disengaging	P.SN/XL/W/X12	On request
		Unlocking	P.SN/XL/W/X13	On request
		Tighten	P.SN/XL/W/X14	On request
		Release	P.SN/XL/W/X15	On request
		Liquid	P.SN/XL/W/X16	**5000958**
		Horn	P.SN/XL/W/X17	On request

🔴	OFF
⚪	ON
⚫	ON

Front elements

Technical data

			Contact blocks	LED elements	Push buttons, mushroom P/B spring return	Double-push buttons	Rotary switches, rotary switches illuminated
General							
Standards and requirements			IEC / EN 60947, VDE 0660				
Mechanical life	Operations	x 10^6	5	-	5	0,2	0,1
Max. operating frequency		S / h	3600	-	3600	3600	2000
Operating force		N	*≤ 5*	-	*≤ 5*	*≤ 5*	-
Operating torque		Nm	*≤ 0,8 (Terminals)*	*≤ 0,8 (Terminals)*	-	-	≤ 0,3
Degree of protection IEC / EN 60529			IP20	IP20	IP67 / IP69K	IP67 / IP69K	IP66
Environmental resistance			Humidity, constant, acc. to IEC 60068-2-78 Humidity, cyclic, acc. to IEC 60068-2-30				
Ambient temperature	min. / max.	°C	-25 / +70	-25 / +70 [1]	-25 / +70	-25 / +70	-25 / +70
Mounting position			any				
Shock withstand acc. to IEC 60068-2-27 Shock period 11 ms, sinus wave		g	> 30				
Terminal cross-sections							
single wire	min. – max.	mm²	0,75 – 2,5	0,75 – 2,5	-	-	-
stranded wire	min. – max.	mm²	0,5 – 2,5	0,5 – 2,5	-	-	-
Current paths							
Rated impulse withstand voltage U_{imp}		V	6000	6000	-	-	-
Rated Insulation voltage U_i		V	500	500	-	-	-
Overvoltage category/ Pollution degree			III / 3	III / 3	-	-	-
Control circuit reliability at							
24 V DC/5 mA	Fault frequency H_F		$< 10^7$, < 1 failure per 10^7 operations				
5 V DC/1 mA	Fault frequency H_F		$< 5 \times 10^6$, < 1 failure per 5×10^6 operations				
Max. fuce size	Characteristic	A gl / gG	10	-	-	-	-
Switching capacity							
Rated operational current I_e							
AC-15 115 V		A	6	-	-	-	-
230 V		A	6	-	-	-	-
400 V		A	4	-	-	-	-
500 V		A	2	-	-	-	-
DC-13 24 V		A	3	-	-	-	-
42 V		A	1,7	-	-	-	-
60 V		A	1,2	-	-	-	-
110 V		A	0,6	-	-	-	-
220 V		A	0,3	-	-	-	-
Electrical life							
AC-15 230 V / 0,5 A	Operations	x 10^6	1,6	-	-	-	-
230 V / 1,0 A	Operations	x 10^6	1,0	-	-	-	-
230 V / 3,0 A	Operations	x 10^6	0,7	-	-	-	-
DC-13 12 V / 2,8 A	Operations	x 10^6	1,2	-	-	-	-
Approvals							
Technical data On request			USA/Kanada				

[1] > 200 V AC / 60 Hz: -25 / +55 °C

IEC / EN 609
> 0,1
IP67 / IP69K
Humidity
-25 / +40

Technical data

Technical data

			Rotary switches key operated	Potentiometer, Solid pilot lights	Pilot lights	Push buttons, Push buttons illuminated, Mushroom P/B latched	Emergency-stop/ OFF push buttons
General							
Standards and requirements			IEC / EN 60947, VDE 0660				
Mechanical life	Operations	x 10^6	> 0,1			> 0,1	> 0,1
Max. operating frequency		S / h	100			1800	600
Operating force		N				*≤ 5*	*≤ 50*
Operating torque		Nm	*≤ 0,5*				
Degree of protection IEC / EN 60529			IP66	IP66 (Potentiometer) IP67 / IP69K (Pilot lights)	IP67 / IP69K	IP67 / IP69K	reset by turning IP66 / IP69K reset by pulling IP66 / IP69K
Environmental resistance			Humidity, constant, acc. to IEC 60068-2-78 Humidity, cyclic, acc. to IEC 60068-2-30				
Ambient temperature	min. / max.	°C	-25 / +70				
Mounting position			any				
Shock withstand acc. to IEC 60068-2-27 Shock period 11 ms, sinus wave		g	> 30	> 30	> 30	> 30	> 50
Terminal cross-sections							
single wire	min. – max.	mm^2		0,5 – 1,5			
stranded wire	min. – max.	mm^2		0,5 – 1,5			
Current paths							
Rated impulse withstand voltage U_{imp}		V		4000			
Rated Insulation voltage U_i		V		250			
Overvoltage category/ Pollution degree				III / 3			
Approvals							
Technical data On request			UL / CSA / GOST				

			Foot and palm switches latched
General			
Standards and requirements			IEC / EN 60947, VDE 0660
Mechanical life	Operations	x 10^6	> 0,1
Max. operating frequency		S / h	600
Operating force		N	*≤ 60*
Degree of protection IEC / EN 60529			IP67 / IP69K
Environmental resistance			Humidity, constant, acc. to IEC 60068-2-78 Humidity, cyclic, acc. to IEC 60068-2-30
Ambient temperature	min. / max.	°C	-25 / +40
Mounting position			any
Shock withstand acc. to IEC 60068-2-27 Shock period 11 ms, sinus wave		g	> 15
Terminal cross-sections			
single wire	min. / max.	mm^2	0,75 – 2,5
stranded wire	min. / max.	mm^2	0,5 – 2,5
Current paths			
Rated impulse withstand voltage U_{imp}		V	6000
Rated Insulation voltage U_i		V	500
Overvoltage category/ Pollution degree			III/3
Approvals			
Technical data On request			USA/Kanada

IEC / EN 609
> 0,1
IP67 / IP69K
Humidity
-25 / +40

Technical data

Approvals and Standards [10]

Type (alphanumeric sorting)	UL [1]	CULUS [2] 7787	CULUS [3] 24D8	CURUS [4]	CSA [5]	IEC [6]	EN [7]	UKCA	EAC	RUMRS	CCC [8]	LR EMEA
	USA	USA / Canada			Canada	Europe		United Kingdom	Russia, Belarus, Kazakhstan	Russia	People's Republic of China	Europe, Arabia, Africa
		LISTED 7787	LISTED 24D8			IEC60947	EN60947				GB/T14048.3	
Control Switches												
C125	-	A	-	-	A	C	C	C	A	-	A	-
C315	-	-	-	A	A	C	C	C	A	-	A	-
C80	-	A	-	-	A	C	C	C	A	-	A	-
CA10B	-	A	-	-	A	C	C	C	A	A	A	A
CA10X	-	A	-	-	A	C	C	C	A	-	-	-
CA11B	-	A	-	-	A	C	C	C	A	A	-	-
CA20B	-	A	-	-	A	C	C	C	A	A	A	-
CA20X	-	A	-	-	A	C	C	C	A	-	-	-
CA25B	-	A	-	-	A	C	C	C	A	A	A	-
CA4	-	A	-	-	A	C	C	C	A	A	-	-
CA4-1	-	A	-	-	A	C	C	C	A	A	-	-
CA40, CA50, CA63	-	A	-	-	-	C	C	C	A	-	-	-
CAD11B	-	-	A	-	A	C	C	C	A	-	A	-
CG4	-	A	-	-	A	C	C	C	A	-	A	-
CG4-1	-	A	-	-	A	C	C	C	A	-	A	-
CG8B	-	A	-	-	A	C	C	C	A	-	A	-
CGD4-1	-	-	A	-	-	C	C	C	A	-	-	-
CH10B	-	A	-	-	A	C	C	C	A	-	A	A
CH11B	-	-	A	-	A	C	C	C	A	-	-	-
CH16B	-	A	-	-	A	C	C	C	A	-	A	A
CH6	-	A	-	-	A	C	C	C	A	-	-	-
DH10, DH10B	-	A	-	-	-	C	C	C	A	-	-	-
DH11, DH11B	-	-	A	-	-	C	C	C	A	-	-	-
Switches for special use												
A11	-	A	-	-	A	C	C	C	A	-	-	-
A11C	-	A	-	-	A	C	C	C	A	-	-	-
AD11	-	-	-	A	A	C	C	C	A	-	-	-
A25, A25C	-	A	-	-	-	C	C	C	A	-	-	-
CHR10/16/B	-	-	-	A	A	C	C	C	A	-	A	-
CHR11	-	-	-	A	A	C	C	C	A	-	-	-
DHR10/11/B	-	-	-	A	-	C	C	C	A	-	-	-
DK10	-	A	-	-	-	C	C	C	A	-	-	-
DK11	-	-	A	-	-	C	C	C	A	-	-	-
G20	-	-	-	A	-	C	C	C	A	-	A	-
G20S	-	-	-	A	-	C	C	C	A	-	A	-
L1000,L1200, L1600	-	-	-	A	A	C	C	C	A	-	-	-
L2000	-	-	-	-	A	C	C	C	A	-	-	-
L350, L351, L630	-	-	-	A	A	C	C	C	A	-	-	-
L400	-	A	-	-	A	C	C	C	A	-	-	-
L600, L800	-	-	-	A	A	C	C	C	A	-	-	-
Emergency-stop/OFF push buttons and switch disconnector [9]												
C316	-	-	-	A	A	C	C	C	A	-	A	-
KA40/B	-	A	-	-	A	C	C	C	A	-	A	A
KA63/B	-	A	-	-	A	C	C	C	A	-	A	A
KG10/A/B	-	A	-	-	A	C	C	C	A	-	A	-
KG100, KG100C	-	A	-	-	A	C	C	C	A	A	A	-
KG125	-	A	-	-	A	C	C	C	A	-	A	-
KG126, KG127	-	-	-	A	A	C	C	C	A	-	A	-
KG160	-	A	-	-	A	C	C	C	A	-	A	-
KG161, KG162	-	-	-	A	A	C	C	C	A	-	A	-
KG20/A/B	-	A	-	-	A	C	C	C	A	A	A	A
KG210	-	A	-	-	A	C	C	C	A	-	-	-
KG211, KG212	-	-	-	A	A	C	C	C	A	-	-	-
KG250	-	A	-	-	A	C	C	C	A	-	A	-
KG251, KG252	-	-	-	A	A	C	C	C	A	-	A	-
KG315	-	A	-	-	A	C	C	C	A	-	A	-
KG316, KG317	-	-	-	A	A	C	C	C	A	-	A	-
KG32/A/B	-	A	-	-	A	C	C	C	A	A	A	A
KG41/B	-	A	-	-	A	C	C	C	A	A	A	A
KG64/B	-	A	-	-	A	C	C	C	A	A	A	A
KG80	-	A	-	-	A	C	C	C	A	A	A	A
KG80C	-	A	-	-	A	C	C	C	A	A	A	-

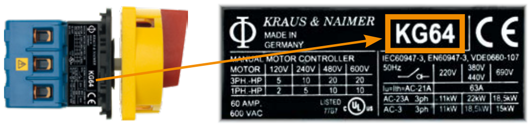
A = approved C = in compliance with the corresponding regulation

[1] **Underwriters Laboratorie** Approved under the 'Listing-Program'. File No. E365898, Category Control Number NMSJ. | [2] **Canadian National and United States Standards - Listed** Approved under the 'Listing-Program'. File No. E35541, Category Control Number NLRV and NLRV7. | [3] **Canadian National and United States Standards - Listed** Approved under the 'Listing-Program'. File No. E60262, Category Control Number NRNT and NRNT7. | [4] **Canadian National and United States Standards - Recognized** Approved under the 'Component Program' (UL-Recognized Industrial Component).
File No. E35541, Category Control Number NLRV2 and NLRV8 resp. File No. E60262, Category Control Number NRNT2 and NRNT8. | [5] **Canadian Standards Association** File No. 13002, Class No. 321105, 321103 resp. 465204 | [6] **IEC 60947 - International Electrical Commission (IEC)** Recommendation IEC does not operate an approval scheme. | [7] **EN 60947** Industrial switches are not required to be labelled but must conform to the applicable requirements. By referring to the specific specification on the product the manufacturer implies that these requirements have been met. | [8] If you need an approval, you have to tell this with your order additional. | [9] Switch types of the KG series as well as C316 are approved under UL508 and CSA-22.2 No. 14-05 as „disconnect switches for use in motor circuits" and only to be used for branch circuit. Switches in enclosure are not approved. | [10] for AC applications, DC applications on request.
More approvals please see homepage: www.krausnaimer.com ➡ Certificates & Guide

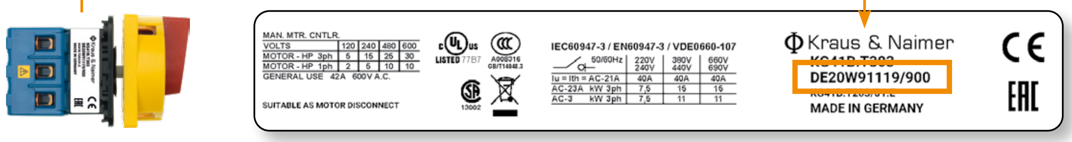
– Ordering example for replacement needs of main switches –
The most important information for ordering replacement supplies

1. 2.

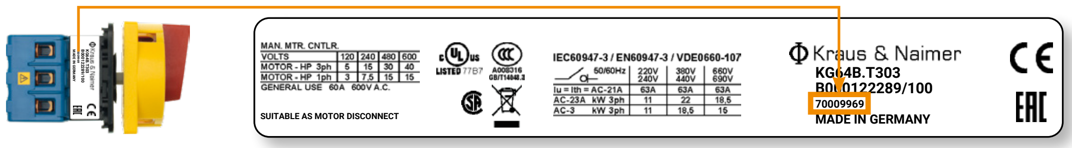
Labels until 2019



Labels until 2022



Labels from 2020

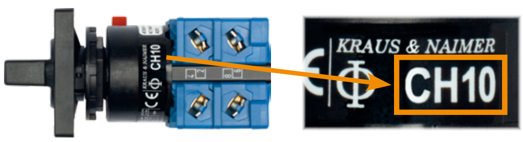


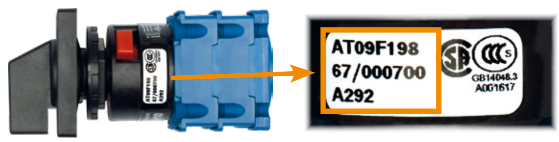
Should details not be available or incomplete, send us significant pictures of the switch.

– Ordering example for replacement needs of control switches –
The most important information for ordering replacement supplies

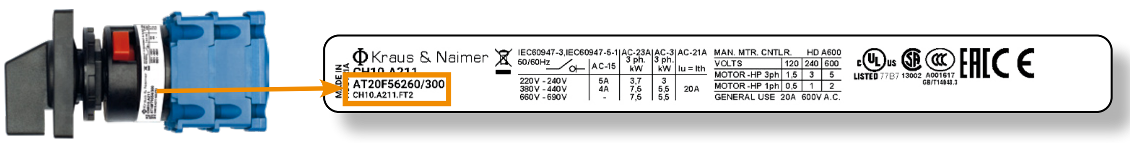
1. 2.

Labels until 2019

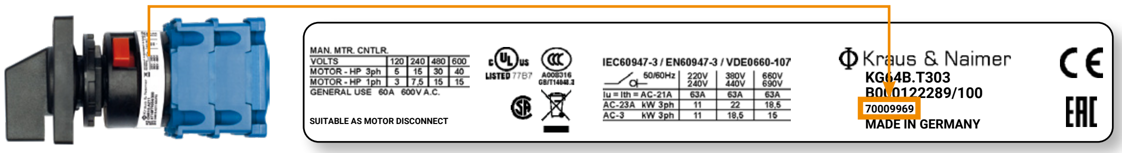




Labels until 2022

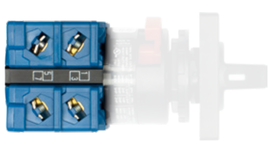
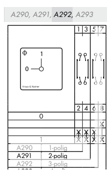
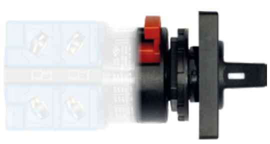
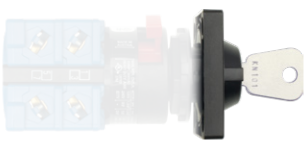


Labels from 2020



Should details not be available or incomplete, send us significant pictures of the switch and the description of the electrical properties according to form for special switches on page 241.
Additional we need information of mounting type of your switches (e.g. Single or 4-hole panel mounting, DIN rail mounting, with enclosure ...)

– Ordering example –

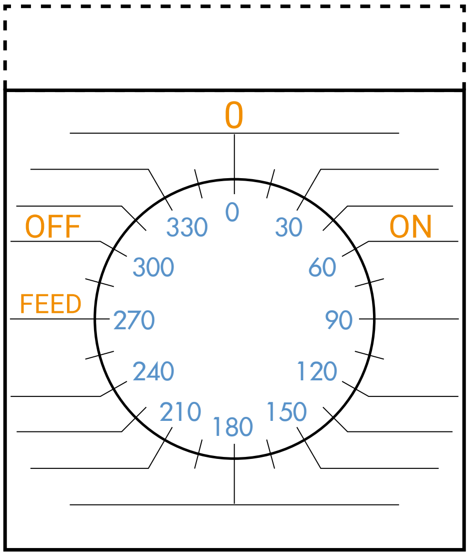
1. Switch type	2. Switch function	3. Mounting	Optional extras (sub-item)
Kind of switch and electrical capacity	Switch Function	Mounting of switch	
e.g. CH10	**A292**	**FT2**	**CH10.A292*FT2 S0.V750D/3G**
			

Ordering example

USEFUL INFO

Form for customized switch programs and escutcheon plates / example

Escutcheon plate



Switch type / provisions

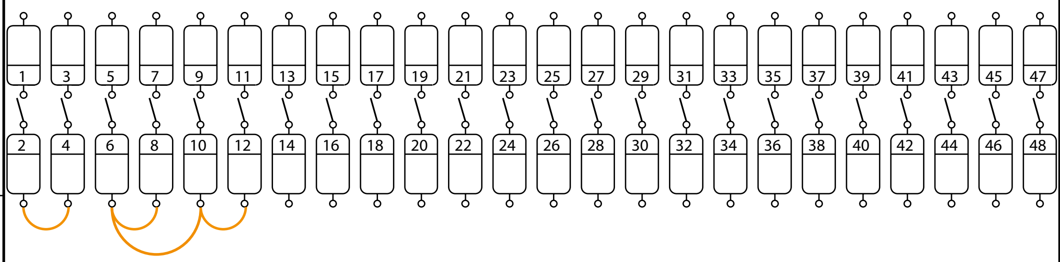
Switch type:	CH10
Mounting:	*FT2
Escutcheon plate:	Sondergravur
Optional extra:	V750D/3C

Customer informations

Customer ID: (if known)	M9999
Name + Adresse:	Mustermann AG
	Musterstraße 10
	01010 Musterhausen
Phone: / Fax: e-Mail: Date:	
	karin.musterfrau@mustermann.com
	0111-11 11 11 10.10.10

Kraus & Naimer
Wikingerstraße 20-28
D-76189 Karlsruhe
sales-de@krausnaimer.com
T: 0721 5988-0
F: 0721 592828

Switch program / switch function



Spring return / Key removable	Position / Inscription	Angle	1	3	5	7	9	11	13
	FEED	270							X
	OFF	300	X	X	X				
		330						X	
X	0	0				X			
		30				X	X		
	ON	60		X	X		X		
		90							
		120							
		150							
		180							
		210							
		240							
			Contact in position OFF closed	Contact in position OFF and ON closed	Contact without interruption	Contacts are overlapping		Pulse contact	Spring return function

Rotation

Notice for the DK series:

Please copy form twice:
1. copy for enclosed contacts of standard position
2. copy for enclosed contacts of pushed position

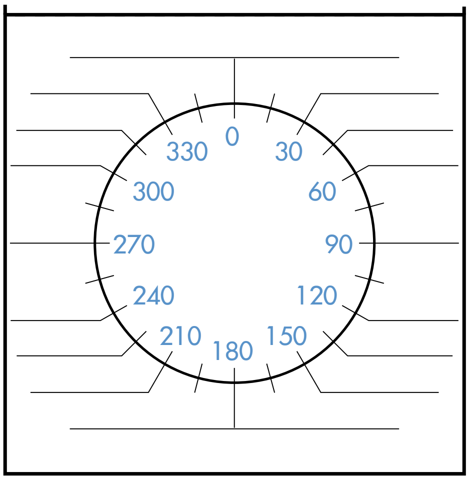
Additional please tell us the switch positions, in which and between which can be pushed.

X Contact closed — X|X Contact not opens when switching — Bridge

The order of contacts, terminals and switching angles could change for technical reasons.

Form for customized switch programs and escutcheon plates / master

Escutcheon plate



Switch type / provisions

Switch type:

Mounting:

Escutcheon plate:

Optional extra:

Customer informations

Customer ID:

Name + Adresse:

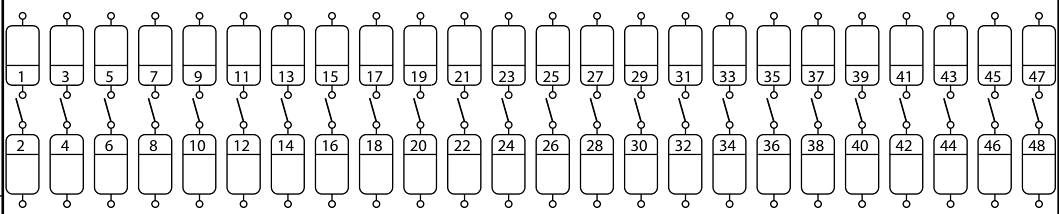
Phone: / Fax: e-Mail: Date:

Kraus & Naimer
Wikingerstraße 20-28
D-76189 Karlsruhe
sales-de@krausnaimer.com
T: 0721 5988-0
F: 0721 592828

Switch program / switch function

Spring return / X Key removable

Rotation



	Position / Inscription	Angle
		270
		300
		330
		0
		30
		60
		90
		120
		150
		180
		210
		240

X Contact closed

Contact not opens when switching

Bridge

It is possible that the order of contacts, as specified by customer, for technical reason cannot be met.
In the switch program is seen the actual position of contacts, what will be generated based on the order form.

The principle of a cam switch

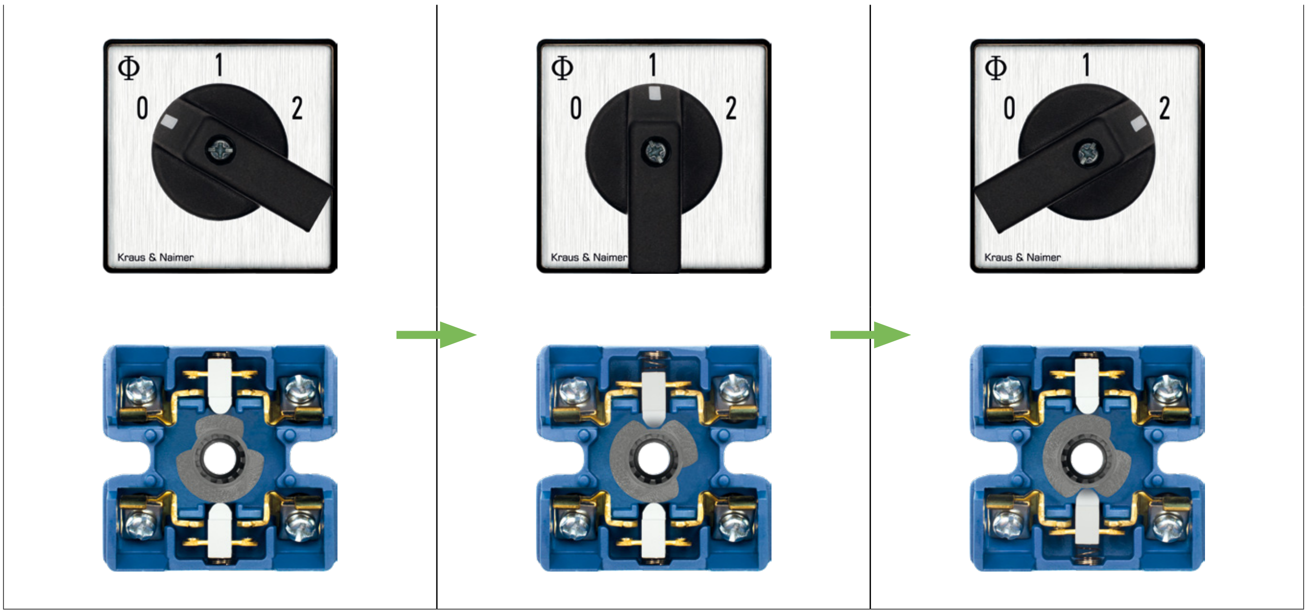
The cam switch is a hand-operated switching device, in which a rotary movement of the handle, on an axis slice with projections, is transmitted. About these projections, also called cam, the rotational movement is converted into longitudinal movements of the plunger. These, in turn, open or close double-break contacts.

Most cam switches have two contacts in a switching chamber, the so-called escape. At a total switching angle from 180 °, it allows the use of a second cam plate one from each other independent actuation of the two contacts.

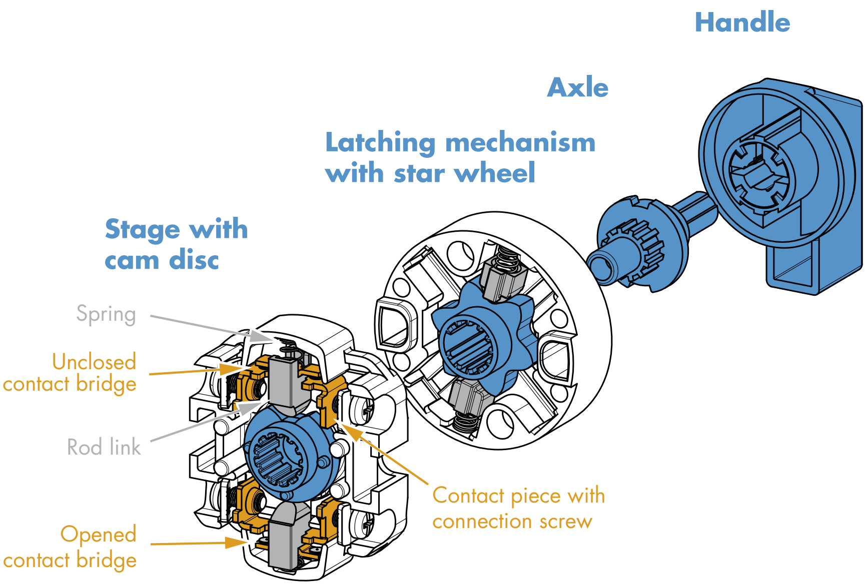
The switching angle between the positions is specified via a star in the detent mechanism. Within this, also a stop is located that limits the total switching angle of the rotation via another cam.

This structure allows a modular principle, which upgrades a few items almost up to an infinite number of custom switching programs.

Example based on multi-step switch



Spring loaded contacts



ATEX groups and category of equipment

Group I comprises equipment intended for use in the underground parts of mines, and to those parts of surface installations of such mines, likely to become endangered by firedamp and/or combustible dust.

Group II comprises equipment intended for use in other places likely to become endangered by explosive atmospheres.

These groups are sub-divided into categories, as shown below. The way in which this categorisation has been developed highlights one of the main distinctions of Group I and II.

For Group I, the categorisation depends on (amongst other factors) whether the product is to be deenergized in the event of an explosive atmosphere occurring.

For Group II, it depends where the product is intended to be used in and whether a potentially explosive atmosphere, is always present, or is likey to occur for a long or a short period of time.

Group I: Underground an d above ground installations for mining industry with hazardous choke damp and mine dust		
Category	**Accepting**	
Category M1	Very high level of protection	Safety in the event of two faults occurring independently of each other
Category M2	High level of protection	Device must be turned OFF in case of potentially explosive atmosphere

Group II: Other ex-areas					
Category	**Accepting of danger**	**Accepting**		**Zone**	**Substance class**
Category 1	Highly likely to occur and are present continuously, for long periods of time or frequently	Very high level of protection	Safety in the event of two faults occurring independently of each other	Zone 0	G (Gases)
				Zone 20	D (Dusts)
Category 2	Likely	High level of protection	Safety in the event of one fault	Zone 1	G (Gases)
				Zone 21	D (Dusts)
Category 3	Unlikely	Normal level of protection	Suitable for normal operation	Zone 2	G (Gases)
				Zone 22	D (Dusts)

EMC

Maintenance switches for EMC-compliant connection of variable speed drives are available either with shield clips (KS- and KL-enclosures) or with clips mounted on DIN rails (STM-enclosure). These clips are used to continue the cable shield circuit through the enclosure.

The configuration of the Maintenance switch between Frequency Converter (FC) and motor allows the use as Disconnector up to 400 Hz and as load switch at frequencies from 40 to 100 Hz.

Each Maintenance switch has a standard 2 Auxiliary contacts, 1 NC and 1 NO. Via the NO (20 ms leading) the FC can be switched OFF before the main contacts of the switch open.

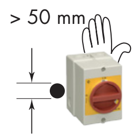
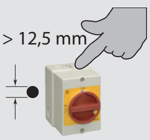
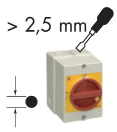
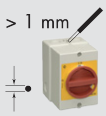
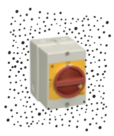
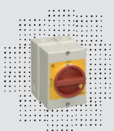
For the rating of the switch please note that the motor may have approx. 10 % higher charging rate due to the higher loss in FC-operation e.g. a motor with 7,5 kW rating the motor current has to be determined with 16,7 A instead of 15,2 A.

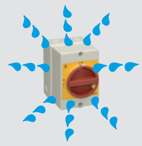
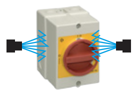
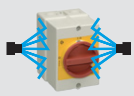
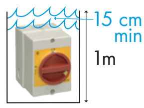
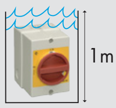
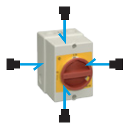
Degrees of protection

(Reference: EN 60947-1)

The letters IP combined with a double digit specifie the degrees of protection. The IP code identify the scope of protection for enclosures relating to solid particle protection (first digit) and liquid ingress protection (second digit).

e.g. **IP 6 7**

First digit		Solid particle protection
0		No protection against contact and ingress of objects
1		Protection against any large surface of the body Ø > 50 mm (hand), but no protection against deliberate contact with a body part
2		Protection against any surface of the body Ø > 12,5 mm (fingers)
3		Protection against objects Ø > 2,5 mm (tools, thick wires)
4		Protection against objects Ø > 1 mm (most wires, large ants)
5		Dust protected
6		Dust tight

Second digit		Liquid ingress protection
0		None
1		Protection against dripping water (vertically falling drops)
2		Protection against dripping water when tilted at 15°
3		Protection against spraying water at any angle up to 60°
4		Protection against splashing water from any direction
5		Protection against water jets from any direction by a nozzle (6.3 mm)
6		Protection against powerful water jets from any direction by a nozzle (12.5 mm)
7		Suitable for temporary immersion in water up to 1 m depth
8		Suitable for continous immersion in water specified by the manufacturer
9k		Protected against close-range high pressure, high temperature spray downs Water pressure: 100 bar Water temperature: 80 °C

Definition

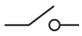
(References: EN 60947 und EN 60204)

Utilization category of switchgear

Standard utilization categories define the current making and breaking values for switches/contactors for the purpose to enable the selection for the proper switchgear for a particular application.
Utilization Categories are depending on the following:

- The type of load to be controlled (squirrel cage or slip ring motor, resistors)
- The operating cycle conditions (motor running, stalled or starting, reverse operation, counter-current braking

Control switch

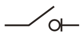


A device capable of making, carrying and breaking current within an electrical circuit under defined conditions.

Disconnector

A device capable of carrying current within an electrical circuit and providing OFF-load isolation within that circuit in accordance with the specified requirements for safety isolation.

Switch disconnector



Switch disconnectors in their open position fulfil all of the functional demands of an isolator.

Disconnect Functionality

Functionality to disconnect an electrical systems completely or electrical sub parts of a system form the electrical power source for safety reasons.

Main Switch (Power Disconnect)

A main switch can be designed as a load break switch or disconnect switch. The load break switch has to fulfill all requirements of utilization category AC23B or higher. The selection of the disconnect switch happens according to the Thermal current. In addition the disconnect switch has to have an auxiliary contact to enable the load break via a contactor. The auxiliary contact has to have a sufficient AC-15 switching capacity.

When using a load break switch as main switch the Breaking capacity has to be considered. The Breaking capacity has to match the current of the biggest motor in a system with blocked breaks additionally the sum of all nominal currents of all other electricity consumers in the machine or system. In addition to that the sum of the rated currents of all electricity consumers must not exceed the tolerable limit of the Thermal current of the switch. For main switches with emergency stop functionality the same selection criteria apply.

Direct opening action

Contact opening action which ensures that all contacts are in an open stage, when the switch handle is in „OFF" position, according defined conditions.

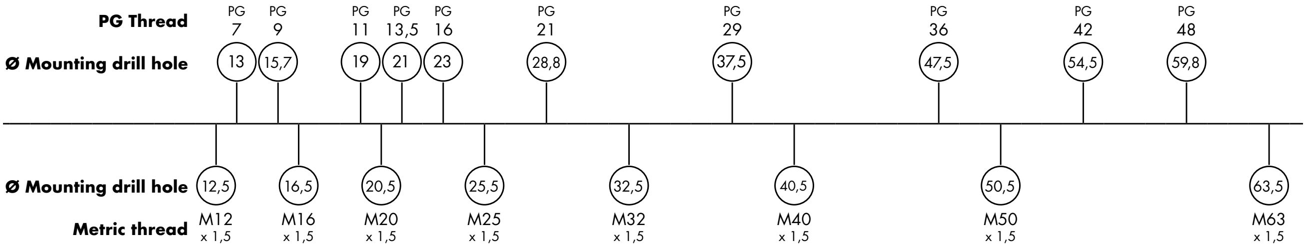
Positively driven operation

Switching action which ensures that the Auxiliary contacts of a mechanical switch are matching the switch status of the main contacts („OPEN" or „CLOSED") indicated by the handle position („ON" or „OFF").

Control switch (auxiliary circuit switch)

Switch types intended for use as control switch for isolation with direct opening action according to Annex K of IEC 60947-5-1:2016, EN 60947-5-1:2017 and VDW 0660 Part 200:03:2018 referring to Low-Voltage Switchgear and Controlgear, Control Circuit Devices and Switching Elements.

Comparison of mounting holes PG versus metric



Utilization category of switchgear

(References: EN 60947 und EN 60204)

AC operation

Frequently operation	Occasional operation		Type of application
AC-20A	AC-20B		Connecting and disconnecting under no-load conditions
AC-21A	AC-21B		Switching of resistive loads, including moderate overloads
AC-22A	AC-22B		Switching of mixed resistive and inductive loads, including moderate overloads
AC-23A	AC-23B		Switching of motor loads or other highly inductive loads
		AC-3	Squirrel-cage motors: starting, switches OFF motors during running time
		AC-15	Control of AC electromagentic loads (> 72 VA)

DC operation

Frequently operation	Occasional operation	Type of application	Prospective breaking current
DC-13		Control of DC electromagnetics	6 x I_e
DC-20A	DC-20B	Connecting and disconnecting under no-load conditions	-
DC-21A	DC-21B	Switching of resistive loads, including moderate overloads	1,5 x I_e
DC-22A	DC-22B	Switching of mixed resistive and inductive loads, including moderate overloads (e.g. shunt motors)	4 x I_e
DC-23A	DC-23B	Switching of highly inductive loads (i.e. series motors)	4 x I_e

Conversion table american wire gages (AWG) into mm²

(Reference: EN 60947-1)

ISO-wire gages (mm²)	Relation between AWG/MCM-Sizes and metrical wire gages	
	AWG/MCM-Size	Converted metrical wire gage (mm²)
0,2	24	0,205
-	22	0,324
0,5	20	0,519
0,75	18	0,82
1	-	-
1,5	16	1,3
2,5	14	2,1
4	12	3,3
6	10	5,3
10	8	8,4
16	6	13,3
25	4	21,2
35	2	33,6
50	0	53,5
70	00	67,4
95	000	85
-	0000	107,2
120	250 MCM	127
150	300 MCM	152
185	350 MCM	177
240	500 MCM	253
300	600 MCM	304

All dimension in this catalog are in mm

Color coding for isolated wire ferrules

(Reference: DIN 46228 Part 4)

Nominal cross section mm²	Color
0,5	white
0,75	grey
1	red
1,5	black
2,5	blue
4	grey
6	yellow
10	red
16	blue
25	yellow
35	red
50	blue
70	yellow
95	red
120	blue
150	yellow

Keys for harmonized power cables

Identification of provision

Harmonised provision	H
Approved national type	A

Voltage U_0/U

100/100V	01
300/300V	03
300/500	05
450/750V	07
700/1000V	08

Insulation material

Polvinyl chloride (PVC)	V
Natur and/or styrene butadiene rubber (SBR)	R
Silicone rubber	S

Sheath material

PVC	V
Natur and/or styrene butadiene rubber (SBR)	R
Polychloroprene rubber	N
Glass fibre braid	J
Textile fabric	T
Textile fabric flame-resistant	T2
Ethylene-propylene rubber	B

Nominal cross-section

...	0,5 up to 500mm²

Protective conductor

X	Without PE conductor
G	With PE conductor

Wire count

...	Number of single conductors

Cable type

U	Single-wire
R	Stranded, finely stranded conductor
K	Permanent installation
F	Finely stranded for flexible cables
H	Very finely stranded for flexible cables
Y	Tinsel wire

Special features of structure

H	flat, divisible cable
H2	flat, indivisible cable

Example

H05V-K 1,5 SW = PVC wiring conductor 1,5 mm², finely stranded, black

A07RN-F 3 X 2,5 = Strong rubber hose, 3 core, 2,5 mm², without green-yellow PE conductor

Switchgear and components [1]

[1] Subject to change without notice

Name	Art. No.	Page
C200-4.T106/D-A001.STM	70023125	77
C200-4.T206/D-A001.STM	70009765	76
C316.T103/05.E 1	70018706	11
C316.T103/13.VE	70018707	45
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KG210.T203/05.E	70029411	11
KG210.T203/13.VE	70012810	45
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KG315.T103/A3.E	70058004	15
KG315.T103/B2.VE	70038440	50
KG315.T103/D-A007.VE	70048771	52
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KG315.T204/48.STM	70025959	63
KG315.T205/05.E	70048778	19
KG32.T103/33.KL51V	70025944	60
KG32.T103/40.KL51V	70021928	61
KG32.T103/D-A061.KL51V	70016584	73
KG32.T103/NLB522.IKN	70020257	88
KG32.T103/NL-EXBA.KNBOX	70022644	94
KG32.T103/NL-EXBC*KNSAF	70035309	95
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KG32.T104/D-A022.KL51V	70025399	75
KG32.T104/NLB522.IKN	70020275	89
KG32.T104/NL-EXBA.KNBOX	70022933	96
KG32.T106/NL-EXBA.KNBOX	70023920	97
KG32.T203/33.KL51V	70026000	60
KG32.T203/40.KL51V	70010041	61
KG32.T203/D-A117.KL51V	70010424	72
KG32.T203/NLB512.IKN	70020270	88
KG32.T203/NL-EXRA.KNBOX	70023921	94
KG32.T203/NL-EXRC*KNSAF	70035313	95
KG32.T203/NL-EXRC.*KNBOX	70023922	94
KG32.T203/WASI02.KL12V	70011510	82
KG32.T204/33.KL51V	70025247	62
KG32.T204/40.KL51V	70025127	63
KG32.T204/D-A026.KL51V	70049346	74
KG32.T204/NLB512.IKN	70020277	89
KG32.T204/NL-EXRA.KNBOX	70023923	96
KG32.T206/NL-EXRA.KNBOX	70023924	97
KG32A.T103/01.E	70021630	10
KG32A.T103/04.E	70022359	11
KG32A.T103/04.FT2	70010818	31
KG32A.T103/17.E	70048780	12
KG32A.T103/20.E	70048781	13
KG32A.T103/20.FT2	70029409	33
KG32A.T103/A2.E	70059713	15
KG32A.T103/A2.FT2	70059754	35
KG32A.T103/A9.VE	70065286	49
KG32A.T104/01.E	70026836	20
KG32A.T104/04.E	70010028	21
KG32A.T104/04.FT2	70026477	39
KG32A.T105/01.E	70048788	18
KG32A.T105/04.E	70048789	19
KG32A.T105/04.FT2	70038423	37
KG32A.T203/01.E	70019435	10
KG32A.T203/04.E	70011557	11
KG32A.T203/04.FT2	70010764	31
KG32A.T203/17.E	70048793	12
KG32A.T203/20.E	70021748	13
KG32A.T203/20.FT2	70030900	33
KG32A.T203/58.VE2	70021108	99
KG32A.T203/A2.E	70059697	15
KG32A.T203/A2.FT2	70059749	35
KG32A.T203/A9.VE	70059765	49
KG32A.T204/01.E	70026015	20
KG32A.T204/04.E	70023790	21
KG32A.T204/04.FT2	70021516	39
KG32A.T205/01.E	70059799	18
KG32A.T205/04.E	70048821	19
KG32A.T205/04.FT2	70048822	37
KG32A.T303.E	70011114	99
KG32A.T303.FH3	70048835	99
KG32A.T303.FT2	70018136	99
KG32A.T303.VE2	70022451	99
KG32A.T303/58.VE2	70011389	99
KG32A.T903.E	70018145	100
KG32A.T903.VE2.F437	70019595	100
KG32A.T904.E	70018148	100
KG32A.T904.VE2.F437	70052044	100
KG32B.T103/01.E	70010558	10
KG32B.T103/01.FT2	70018783	30
KG32B.T103/04.E	70010307	11
KG32B.T103/04.FT2	70026837	31
KG32B.T103/09.VE	70012799	44
KG32B.T103/17.E	70012744	12
KG32B.T103/17.FT2	70048836	32
KG32B.T103/20.E	70025283	13
KG32B.T103/20.FT2	70036363	33
KG32B.T103/25.VE	70019218	46
KG32B.T103/A1.E	70037967	14
KG32B.T103/A1.FT2	70057087	34
KG32B.T103/A2.E	70052818	15
KG32B.T103/A2.FT2	70048294	35
KG32B.T103/A8.VE	70054527	48
KG32B.T103/A9.VE	70065287	49
KG32B.T103/B1.VE	70038438	50
KG32B.T103/D-A048.GKM	70011084	90
KG32B.T103/D-A124.E	70048841	17
KG32B.T103/WASI01.STM	70011659	84
KG32B.T104/01.E	70010693	20
KG32B.T104/01.FT2	70010457	38
KG32B.T104/04.E	70010688	21
KG32B.T104/04.FT2	70039777	39
KG32B.T104/09.VE	70010021	53
KG32B.T104/D-A015.GKM	70024515	91
KG32B.T105/01.E	70039666	18
KG32B.T105/01.FT2	70048845	36
KG32B.T105/04.E	70028053	19
KG32B.T105/04.FT2	70029918	37
KG32B.T106/01.E	70025396	22
KG32B.T106/04.E	70039923	23
KG32B.T106/33.KL11V	70019222	64
KG32B.T106/40.KL11V	70012742	65
KG32B.T106/D-A029.GKM	70024561	92
KG32B.T106/D-A040.KL11V	70033788	77
KG32B.T106/WASI01.STM	70011675	85
KG32B.T203/01.E	70010162	10
KG32B.T203/01.FT2	70010745	30
KG32B.T203/04.E	70019326	11
KG32B.T203/04.FT2	70025627	31
KG32B.T203/09.VE	70010560	44
KG32B.T203/17.E	70011115	12
KG32B.T203/17.FT2	70026354	32
KG32B.T203/20.E	70037197	13
KG32B.T203/20.FT2	70045899	33
KG32B.T203/25.VE	70019224	46
KG32B.T203/A1.E	70040085	14
KG32B.T203/A1.FT2	70059745	34
KG32B.T203/A2.E	70054177	15
KG32B.T203/A2.FT2	70059750	35
KG32B.T203/A8.VE	70059756	48
KG32B.T203/A9.VE	70059766	49
KG32B.T203/B1.VE	70059771	50
KG32B.T203/D-A095.GKM	70024562	90
KG32B.T203/D-A188.VE	70048858	51
KG32B.T203/D-A190.E	70011291	17
KG32B.T203/WASI01.STM	70011656	84
KG32B.T204/01.E	70014349	20
KG32B.T204/01.FT2	70029031	38
KG32B.T204/04.E	70010689	21
KG32B.T204/04.FT2	70029058	39
KG32B.T204/09.VE	70011178	53
KG32B.T204/D-A016.GKM	70024571	91
KG32B.T205/01.E	70021635	18
KG32B.T205/01.FT2	70040341	36
KG32B.T205/04.E	70048866	19
KG32B.T205/04.FT2	70048867	37
KG32B.T206/01.E	70021923	22
KG32B.T206/04.E	70010636	23
KG32B.T206/33.KL11V	70019227	64
KG32B.T206/40.KL11V	70011052	65
KG32B.T206/D-A045.GKM	70024575	92
KG32B.T206/D-A054.KL11V	70011051	76
KG32B.T206/WASI01.STM	70011667	85
KG32B.T303.E	70010409	99
KG32B.T903.E	70018201	100
KG32B.T903.KL10.F437	70051965	101
KG32B.T903/D-A018.VE	70086786	101
KG32B.T904.E	70018203	100
KG32B.T904.KL10.F437	70051994	101
KG32B.T904/D-A022.VE	70086822	101
KG33A.T103/68.VE	auf Anfrage	102
KG33A.T203/68.VE	70048873	102
KG41.T103/01.E	70026085	10
KG41.T103/04.E	70011701	11
KG41.T103/33.KL11V	70014343	60
KG41.T103/40.KL11V	70010099	61
KG41.T103/D-A087.KL11V	70010822	73
KG41.T103/D-K001.VE2C	70042113	99
KG41.T103/NLB522.IKN	70020258	88
KG41.T103/NL-EXBA.KNBOX	70023925	94
KG41.T103/NL-EXBC*KNSAF	70035357	95
KG41.T103/NL-EXBC.*KNBOX	70023926	94
KG41.T103/WASI02.KL12V	70011522	82
KG41.T104/01.E	70025945	20
KG41.T104/04.E	70010030	21
KG41.T104/33.KL11V	70011284	62
KG41.T104/40.KL11V	70010308	63
KG41.T104/D-A023.KL11V	70048879	75
KG41.T104/NLB522.IKN	70020263	89
KG41.T104/NL-EXBA.KNBOX	70023927	96
KG41.T105/04.E	70048881	19
KG41.T203/01.E	70034492	10
KG41.T203/04.E	70025658	11
KG41.T203/33.KL11V	70010220	60
KG41.T203/40.KL11V	70010888	61
KG41.T203/58.VE2	70010823	99
KG41.T203/D-A145.KL11V	70011035	72
KG41.T203/D-K001.VE2C	70048889	99
KG41.T203/NLB512.IKN	70020274	88
KG41.T203/NL-EXRA.KNBOX	70023928	94
KG41.T203/NL-EXRC*KNSAF	70035375	95
KG41.T203/NL-EXRC.*KNBOX	70023929	94
KG41.T203/WASI02.KL12V	70011511	82
KG41.T204/01.E	70010133	20
KG41.T204/04.E	70019437	21
KG41.T204/33.KL11V	70010469	62
KG41.T204/40.KL11V	70010020	63
KG41.T204/D-A035.KL11V	70030038	74
KG41.T204/NLB512.IKN	70020265	89
KG41.T204/NL-EXRA.KNBOX	70023930	96
KG41.T205/04.E	70048891	19
KG41.T303.VE2	70030404	99
KG41.T303.VE2C	70048897	99
KG41.T303/58.VE2	70010102	99
KG41B.T103/01.E	70010559	10
KG41B.T103/04.E	70010065	11
KG41B.T103/09.VE	70011812	44
KG41B.T103/12.VE	70012740	45
KG41B.T103/17.E	70012739	12
KG41B.T103/20.E	70040488	13
KG41B.T103/25.VE	70019237	46
KG41B.T103/28.VE	70020153	47
KG41B.T103/A1.E	70028114	14
KG41B.T103/A2.E	70034494	15
KG41B.T103/A8.VE	70059758	48
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KG41B.T104/01.E	70010927	20
KG41B.T104/04.E	70010309	21
KG41B.T104/09.VE	70019238	53
KG41B.T104/12.VE	70019239	54
KG41B.T104/D-A022.GKM	70024032	91
KG41B.T105/01.E	70027959	18
KG41B.T105/04.E	70021698	19
KG41B.T106/01.E	70026281	22
KG41B.T106/04.E	70045498	23
KG41B.T106/33.KL71V	70019240	64
KG41B.T106/40.KL71V	70012738	65
KG41B.T106/D-A029.GKM	70024577	92
KG41B.T106/D-A032.KL71V	70026033	77
KG41B.T106/WASI01.STM	70011676	85
KG41B.T203/01.E	70009968	10
KG41B.T203/04.E	70011690	11
KG41B.T203/09.VE	70010015	44
KG41B.T203/12.VE	70012737	45
KG41B.T203/17.E	70010455	12
KG41B.T203/20.E	70038085	13
KG41B.T203/25.VE	70019241	46
KG41B.T203/28.VE	70010868	47
KG41B.T203/A1.E	70023373	14
KG41B.T203/A2.E	70059698	15
KG41B.T203/A8.VE	70041580	48
KG41B.T203/A9.VE	70059767	49
KG41B.T203/B1.VE	70059772	50
KG41B.T203/D-A076.E	70048915	17
KG41B.T203/D-A127.GKM	70024579	90
KG41B.T203/WASI01.STM	70011657	84
KG41B.T204/01.E	70011488	20
KG41B.T204/04.E	70010528	21
KG41B.T204/09.VE	70011053	53
KG41B.T204/12.VE	70019242	54
KG41B.T204/D-A028.GKM	70023997	91
KG41B.T205/01.E	70011023	18
KG41B.T205/04.E	70048920	19
KG41B.T206/01.E	70026483	22
KG41B.T206/04.E	70044855	23
KG41B.T206/33.KL71V	70019243	64
KG41B.T206/40.KL71V	70010790	65
KG41B.T206/D-A039.GKM	70019518	92
KG41B.T206/D-A052.KL71V1	70029381	76
KG41B.T206/WASI01.STM	70011668	85
KG41B.T904.E	70010165	100
KG64.T103/01.E	70020590	10
KG64.T103/04.E	70025139	11
KG64.T103/33.KL11V	70014344	60
KG64.T103/40.KL11V	70009947	61
KG64.T103/D-A103.KL11V	70011888	73
KG64.T103/D-K001.VE2C	70047792	99
KG64.T103/NLB522.IKN	70020273	88
KG64.T103/NL-EXBA.KNBOX	70023931	94
KG64.T103/NL-EXBC*KNSAF	70035378	95
KG64.T103/NL-EXBC.*KNBOX	70023932	94
KG64.T103/WASI02.KL12V	70011523	82
KG64.T104/01.E	70025493	20
KG64.T104/04.E	70011182	21
KG64.T104/33.KL11V	70019028	62
KG64.T104/40.KL11V	70011194	63
KG64.T104/D-A060.KL11V	70053209	75
KG64.T104/NLB522.IKN	70020259	89
KG64.T104/NL-EXBA.KNBOX	70023933	96
KG64.T105/04.E	70049003	19
KG64.T203/01.E	70034895	10
KG64.T203/04.E	70025423	11
KG64.T203/33.KL11V	70010221	60
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KG64.T203/D-K001.VE2C	70033576	99
KG64.T203/NLB512.IKN	70020276	88
KG64.T203/NL-EXRA.KNBOX	70023934	94
KG64.T203/NL-EXRC*KNSAF	70035394	95
KG64.T203/NL-EXRC.*KNBOX	70022290	94
KG64.T203/WASI02.KL12V	70011512	82
KG64.T204/01.E	70027773	20
KG64.T204/04.E	70011206	21
KG64.T204/33.KL11V	70012736	62
KG64.T204/40.KL11V	70019031	63
KG64.T204/D-A087.KL11V	70048093	74
KG64.T204/NLB512.IKN	70020268	89
KG64.T204/NL-EXR.KNBOX	70023935	96
KG64.T205/04.E	70049026	19
KG64.T303.VE2	70011691	99
KG64.T303.VE2C	70049031	99
KG64.T303/58.VE2	70012797	99
KG64B.T103/01.E	70010579	10
KG64B.T103/04.E	70010067	11
KG64B.T103/09.VE	70012735	44
KG64B.T103/12.VE	70012734	45
KG64B.T103/17.E	70012733	12
KG64B.T103/20.E	70012732	13
KG64B.T103/25.VE	70019244	46
KG64B.T103/28.VE	70020159	47
KG64B.T103/A1.E	70025240	14
KG64B.T103/A2.E	70042434	15
KG64B.T103/A8.VE	70049581	48
KG64B.T103/A9.VE	70041980	49
KG64B.T103/B1.VE	70049582	50
KG64B.T103/D-A026.E	70021528	17
KG64B.T103/D-A079.GKM	70011365	90
KG64B.T103/WASI01.STM	70011664	84
KG64B.T104/01.E	70009910	20
KG64B.T104/04.E	70010027	21
KG64B.T104/09.VE	70010059	53
KG64B.T104/12.VE	70019245	54
KG64B.T104/D-A032.GKM	70024580	91
KG64B.T105/01.E	70019438	18
KG64B.T105/04.E	70040343	19
KG64B.T106/01.E	70020622	22
KG64B.T106/04.E	70045082	23
KG64B.T106/33.KL71V	70019246	64
KG64B.T106/40.KL71V	70012731	65
KG64B.T106/D-A033.GKM	70023697	92
KG64B.T106/D-A038.KL71V	70011773	77
KG64B.T106/WASI01.STM	70011677	85
KG64B.T203/01.E	70009969	10
KG64B.T203/04.E	70010150	11
KG64B.T203/09.VE	70009970	44
KG64B.T203/12.VE	70012730	45
KG64B.T203/17.E	70010456	12
KG64B.T203/20.E	70038354	13
KG64B.T203/25.VE	70019247	46
KG64B.T203/28.VE	70020160	47
KG64B.T203/A1.E	70046505	14
KG64B.T203/A2.E	70059699	15
KG64B.T203/A8.VE	70045400	48
KG64B.T203/A9.VE	70059768	49
KG64B.T203/B1.VE	70049434	50
KG64B.T203/D-A044.E	70049049	17
KG64B.T203/D-A145.GKM	70024582	90
KG64B.T203/WASI01.STM	70011658	84
KG64B.T204/01.E	70011404	20
KG64B.T204/04.E	70010887	21
KG64B.T204/09.VE	70010058	53
KG64B.T204/12.VE	70019249	54
KG64B.T204/D-A069.GKM	70024584	91
KG64B.T205/01.E	70010869	18
KG64B.T205/04.E	70049055	19
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KG64B.T206/04.E	70049067	23
KG64B.T206/33.KL71V	70019250	64
KG64B.T206/40.KL71V	70010022	65
KG64B.T206/D-A050.GKM	70024585	92
KG64B.T206/D-A066.KL71V1	70019521	76
KG64B.T206/WASI01.STM	70011671	85
KG64B.T904.E	70010034	100
KG80.T103/01.E	70010454	10
KG80.T103/04.E	70010984	11
KG80.T103/09.VE	70010755	44
KG80.T103/12.VE	70012728	45
KG80.T103/17.E	70012727	12
KG80.T103/20.E	70038360	13
KG80.T103/25.VE	70019032	46
KG80.T103/28.VE	70018773	47
KG80.T103/33.KL71V	70019033	60
KG80.T103/40.KL71V	70011629	61
KG80.T103/A1.E	70042206	14
KG80.T103/A2.E	70059714	15
KG80.T103/A8.VE	70053912	48
KG80.T103/A9.VE	70065289	49
KG80.T103/B1.VE	70051487	50
KG80.T103/D-A017.E	70035650	17
KG80.T103/D-A049.GKM	70024586	90
KG80.T103/D-A061.KL71V	70011304	73
KG80.T103/D-W020.E	70049080	16
KG80.T103/NLB522.IKN	70020271	88
KG80.T103/WASI01.STM	70011536	84
KG80.T103/WASI02.KL72V	70011524	82
KG80.T104/01.E	70019034	20
KG80.T104/04.E	70022248	21
KG80.T104/09.VE	70019047	53
KG80.T104/12.VE	70019048	54
KG80.T104/33.KL71V	70019049	62
KG80.T104/40.KL71V	70010160	63
KG80.T104/D-A031.GKM	70023158	91
KG80.T104/D-A036.KL71V	70059786	75
KG80.T104/NLB522.IKN	70020264	89
KG80.T105/01.E	70036830	18
KG80.T105/04.E	70036539	19
KG80.T106/01.E	70049101	22
KG80.T106/04.E	70040853	23
KG80.T106/D-A033.GKM	70024015	92
KG80.T106/WASI01.STM	70011546	85
KG80.T203/01.E	70010163	10
KG80.T203/04.E	70011198	11
KG80.T203/09.VE	70010164	44
KG80.T203/12.VE	70012726	45
KG80.T203/17.E	70010473	12
KG80.T203/20.E	70037927	13
KG80.T203/25.VE	70019050	46
KG80.T203/28.VE	70020168	47
KG80.T203/33.KL71V	70010077	60
KG80.T203/40.KL71V	70010989	61
KG80.T203/58.VE2	70028955	99
KG80.T203/A1.E	70059690	14
KG80.T203/A2.E	70059700	15
KG80.T203/A8.VE	70040654	48
KG80.T203/A9.VE	70059769	49
KG80.T203/B1.VE	70059773	50
KG80.T203/D-A025.E	70049111	17
KG80.T203/D-A096.GKM	70022446	90
KG80.T203/D-A108.KL71V	70010474	72
KG80.T203/D-A133.E	70038969	16
KG80.T203/D-A157.VE	70049113	51
KG80.T203/NLB512.IKN	70020260	88
KG80.T203/WASI01.STM	70011530	84
KG80.T203/WASI02.KL72V	70011513	82
KG80.T204/01.E	70009989	20
KG80.T204/04.E	70010704	21
KG80.T204/09.VE	70010792	53
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KG80.T204/D-W006.KL71V	70059784	74
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S3D.F000.11	2017549	196
ST1.A100.73	2017767	165
ST1.A100.73	2017767	165
ST4 A000.01	2017909	165
ST4.A000.SP	2017910	165
ST5.A000.02	2017933	165
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