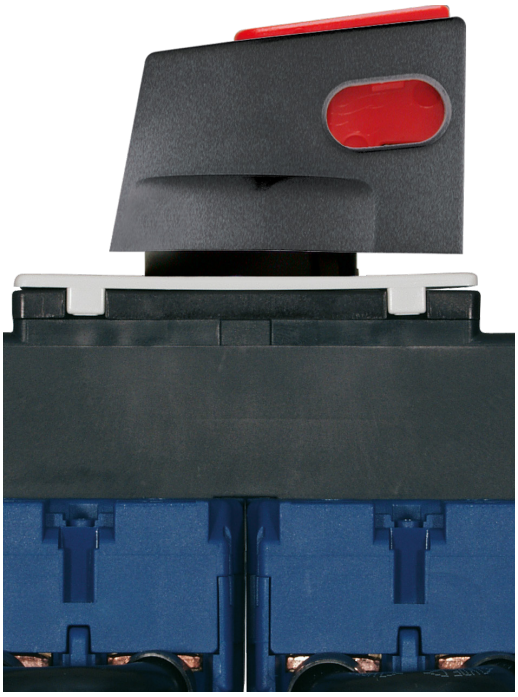
Kraus & Naimer



Disconnectors for
Photovoltaic Applications

TABLE OF CONTENTS

Switching program: 1 x 2-pole			
Operating voltage U_e	**Utilization category**	**Rated operational current I_e**	Page
DIN rail mounting			
450 V DC	DC-PV2	18 A / 25 A / 32 A	4
500 V DC	DC-PV2	12 A / 18 A	4
500 V DC	DC-PV2	25 A	5
650 V DC	DC-PV2	18 A / 25 A / 32 A	5
800 V DC	DC-PV2	12 A / 20 A	5
800 V DC	DC-PV2	18 A / 25 A / 32 A	6
650 V DC	DC-PV0	60 A	7
800 V DC	DC-PV0	60 A	8
In enclosure			
450 V DC	DC-PV2	18 A / 25 A / 32 A	9
500 V DC	DC-PV2	12 A / 18 A / 20 A	9
500 V DC	DC-PV2	25 A	10
650 V DC	DC-PV2	18 A / 25 A / 32 A	10
800 V DC	DC-PV2	12 A / 20 A	10
800 V DC	DC-PV2	18 A / 25 A / 32 A	11
600 V DC	DC-PV0	60 A	12
800 V DC	DC-PV0	60 A	12

Switching program: 1 x 2-pole, 2 x 2-pole and 3 x 2-pole			
Operating voltage U_e	**Utilization category**	**Rated operational current I_e**	Page
Panel mounting			
500 V	DC-PV2	20 A	13
750 V	DC-PV2	20 A	14
1000 V	DC-PV2	20 A	15

UL-approved switches upon request.

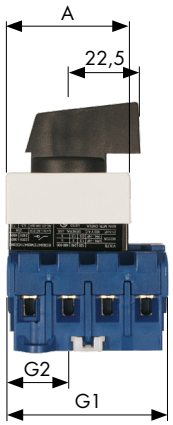
Abbreviations for tables	
U_e	Operating voltage
I_e	Rated operational current
Max. U_L PV	Max. open-circuit voltage of PV generators $U_{OC\ STG}$
U_i	Insulation voltage

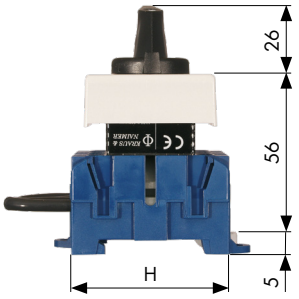
450 V DC : 18 A / 25 A / 32 A
500 V DC : 12 A / 18 A

1 x 2-pole

Switching program: 2-pole, 4 contacts per circuit (2 x 2 in series)

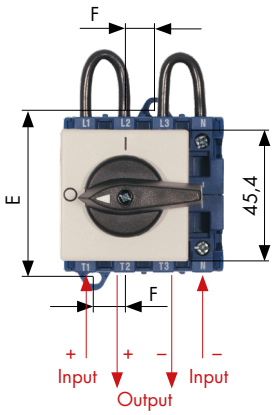
DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712



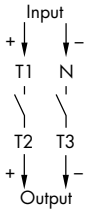
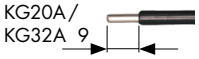
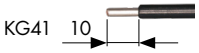


Without padlock device:

With padlock device:



	KG20A / KG32A	KG41
A	43,7	52,4
E	60	70
F	11	12,5
G1	55,5	66
G2	21	25
H	54	64

Wiring diagram	Twist torque for clamping screws		Stripped length
	KG20A / KG32A	1,25 Nm	 KG20A / KG32A 9
	KG41	1,80 Nm	 KG41 10

General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107

Utilization category for photovoltaic applications: DC-PV2 Connecting and disconnecting a PV circuit, where severe overcurrent may occur and where the current can flow in both directions

DC-21B Switching of resistive loads, including moderate overloads

Ambient temperature (open): 50 °C over 24 hours with peaks of up to 55 °C

Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3, protection class IP 20

Maximum conductor cross section (use only copper conductors)

single wire or stranded wire	KG20A / KG32A: 6 mm²	KG41: 16 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	KG20A / KG32A: 4 mm²	KG41: 10 mm²

Mounting

DIN rail mounting with screw and quick mounting in accordance with EN 60715

Faceplate for 45 mm standard cutout, F-handle grey, with interlock

Name without padlock device	Art. No.	Name with padlock device	Art. No.	U_e	I_e DC-PV2	I_e DC-21B	Max. U_L PV	U_i*
KG20A.T304/P1.VE2	70040660	*KG20A.T104/P5.VE2*	70046559	450 V DC	18 A	25 A	540 V DC	690 V
KG32A.T304/P1.VE2	70040661	*KG32A.T104/P5.VE2*	70046560	450 V DC	25 A	25 A	540 V DC	690 V
KG41.T304/P1.VE2	70040662	*KG41.T104/P5.VE2*	70046561	450 V DC	32 A	40 A	540 V DC	690 V
KG20A.T304/P1.VE2	70040660	*KG20A.T104/P5.VE2*	70046559	500 V DC	12 A	21 A	600 V DC	690 V
KG32A.T304/P1.VE2	70040661	*KG32A.T104/P5.VE2*	70046560	500 V DC	18 A	21 A	600 V DC	690 V
KG41.T304/P1.VE2	70040662	*KG41.T104/P5.VE2*	70046561	450 V DC	32 A	40 A	600 V DC	690 V

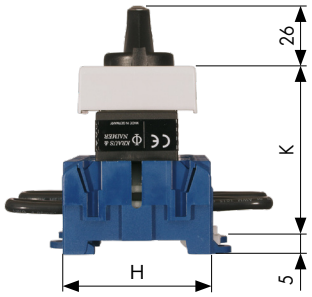
Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

500 V DC : 25 A
650 V DC : 18 A / 25 A / 32 A
800 V DC : 12 A / 20 A

1 x 2-pole

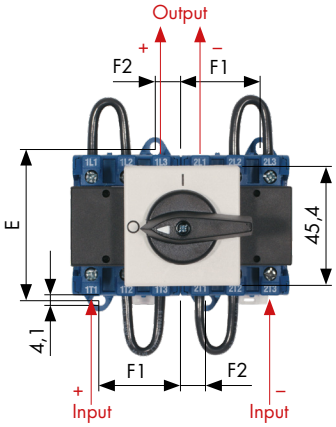
Switching program: 2-pole, 6 contacts per circuit (2 x 3 in series)

DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712

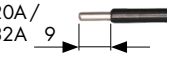
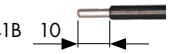


Without padlock device:

With padlock device:



	KG20A / KG32A	KG41B
A	43,7	105,4
E	60	70
F1	32	37,5
F2	10	12,5
G	84	100
H	54	64
K	64	62,5

Wiring diagram	Twist torque for clamping screws		Stripped length	
	KG20A / KG32A	1,25 Nm	KG20A / KG32A	 9
	KG41B	1,80 Nm	KG41B	 10

General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107

Utilization category for photovoltaic applications: DC-PV2 Connecting and disconnecting a PV circuit, where severe overcurrent may occur and where the current can flow in both directions

DC-21B Switching of resistive loads, including moderate overloads

Ambient temperature (open): 50 °C over 24 hours with peaks of up to 55 °C

Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3, protection class IP 20

Maximum conductor cross section (use only copper conductors)

single wire or stranded wire	KG20A / KG32A: 6 mm²	KG41B: 16 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	KG20A / KG32A: 4 mm²	KG41B: 10 mm²

Mounting

DIN rail mounting with screw and quick mounting in accordance with EN 60715

Faceplate for 45 mm standard cutout, F-handle grey, with interlock

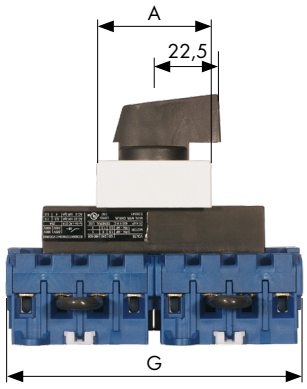
Name without padlock device	Art. No.	Name with padlock device	Art. No.	U_e	I_e DC-PV2	I_e DC-21B	Max. U_L PV	U_i*
KG20A.T306/P1.VE2	70040663	*KG20A.T106/P5.VE2*	70046562	650 V DC	18 A	25 A	780 V DC	1000 V
KG32A.T306/P1.VE2	70040664	*KG32A.T106/P5.VE2*	70046563	500 V DC	25 A	25 A	600 V DC	1000 V
KG41B.T306/P1.VE2	70040665	*KG41B.T106/P5.VE2*	70048006	650 V DC	32 A	40 A	780 V DC	1000 V
KG20A.T306/P1.VE2	70040663	*KG20A.T106/P5.VE2*	70046562	800 V DC	12 A	21 A	1000 V DC	1000 V
KG32A.T306/P1.VE2	70040664	*KG32A.T106/P5.VE2*	70046563	650 V DC	25 A	25 A	780 V DC	1000 V
KG41B.T306/P1.VE2	70040665	*KG41B.T106/P5.VE2*	70048006	800 V DC	20 A	28 A	1000 V DC	1000 V

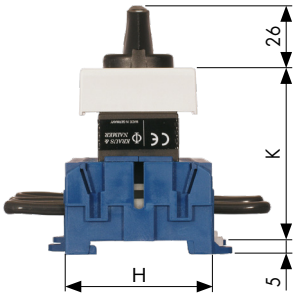
Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

800 V DC : 18 A / 25 A / 32 A — 1 x 2-pole

Switching program: 2-pole, 8 contacts per circuit (2 x 4 in series)

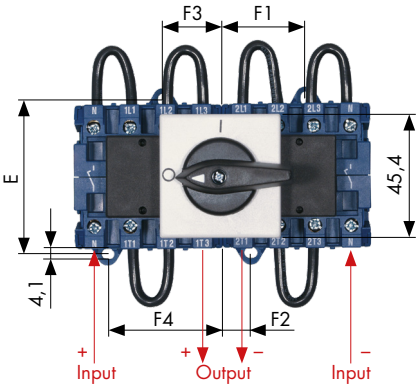
DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712



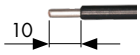


Without padlock device:

With padlock device:



	KG20A KG32A	KG41B
A	43,7	105,4
E	60	70
F1	32	37,5
F2	10	12,5
F3	23,5	28,5
F4	45,5	53,5
G	111	132
H	54	64
K	64	62,5

Wiring diagram	Twist torque for clamping screws		Stripped length	
	KG20A / KG32A	1,25 Nm	KG20A / KG32A	 9
	KG41B	1,80 Nm	KG41B	 10

General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107

Utilization category for photovoltaic applications: DC-PV2 Connecting and disconnecting a PV circuit, where severe overcurrent may occur and where the current can flow in both directions

DC-21B Switching of resistive loads, including moderate overloads

Ambient temperature (open): 50 °C over 24 hours with peaks of up to 55 °C

Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3, protection class IP 20

Maximum conductor cross section (use only copper conductors)

single wire or stranded wire	KG20A / KG32A: 6 mm²	KG41: 16 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	KG20A / KG32A: 4 mm²	KG41: 10 mm²

Mounting

DIN rail mounting with screw and quick mounting in accordance with EN 60715

Faceplate for 45 mm standard cutout, F-handle grey, with interlock

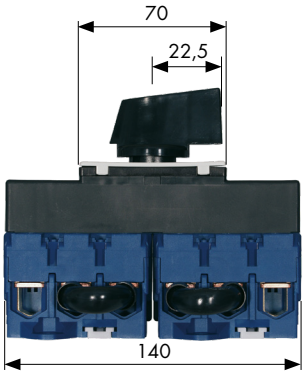
Name without padlock device	Art. No.	Name with padlock device	Art. No.	U_e	I_e DC-PV2	I_e DC-21B	Max. U_L PV	U_i*
KG20A.T308/P1.VE2	70040666	*KG20A.T108/P5.VE2*	70046565	800 V DC	18 A	25 A	1000 V DC	1000 V
KG32A.T308/P1.VE2	70040667	*KG32A.T108/P5.VE2*	70046566	800 V DC	25 A	25 A	1000 V DC	1000 V
KG41B.T308/P1.VE2	70040668	*KG41B.T108/P5.VE2*	70048007	800 V DC	32 A	40 A	1000 V DC	1000 V

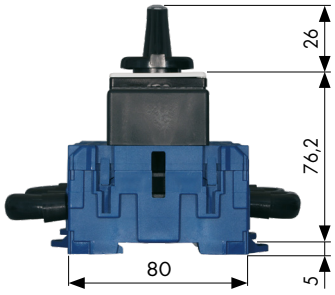
Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

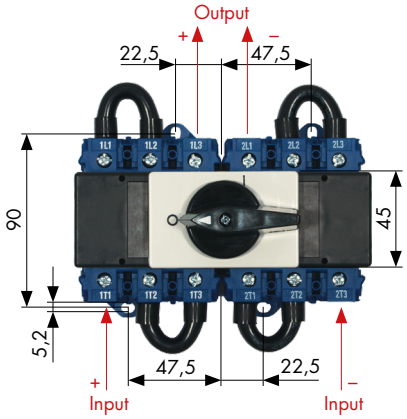
630 V DC : 60 A — 1 x 2-pole

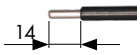
Switching program: 2-pole, 6 contacts per circuit (2 x 3 in series)

DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712







Wiring diagram	Twist torque for clamping screws		Stripped length	
	KG80	3,00 Nm	KG80	

General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107

Utilization category for photovoltaic applications: DC-PV0 Opening and closing a PV circuit to disconnect when no current is flowing
DC-21B Switching of resistive loads, including moderate overloads

Ambient temperature (open): 50 °C over 24 hours with peaks of up to 55 °C

Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3

Maximum conductor cross section (use only copper conductors)
single wire or stranded wire 50 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228) 35 mm²

Mounting

DIN rail mounting with screw and quick mounting in accordance with EN 60715

Faceplate for 45 mm standard cutout, F-handle grey, with interlock

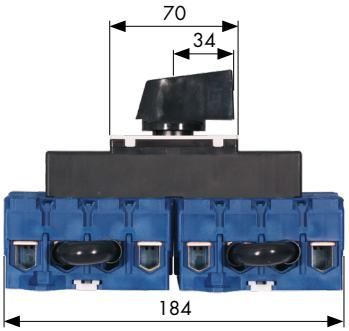
Name 	Art. No.	U_e	I_e DC-PV0	I_e DC-21B	Max. U_L PV	U_i*
KG80.T306/P1.VE2	70040669	630 V DC	60 A	60 A	750 V DC	1000 V

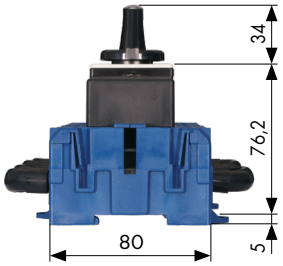
Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

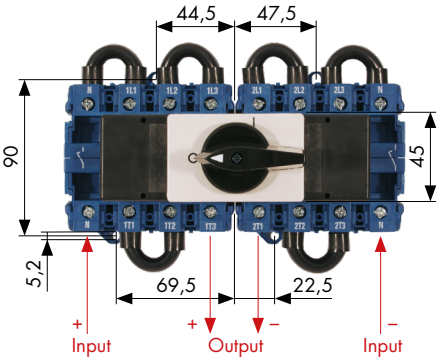
800 V DC : 60 A — 1 x 2-pole

Switching program: 2-pole, 8 contacts per circuit (2 x 4 in series)

DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712







Wiring diagram	Twist torque for clamping screws		Stripped length	
	KG80	3,00 Nm	KG80	14 

General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107

Utilization category for photovoltaic applications: DC-PV0 Opening and closing a PV circuit to disconnect when no current is flowing
DC-21B Switching of resistive loads, including moderate overloads

Ambient temperature (open): 50 °C over 24 hours with peaks of up to 55 °C

Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3

Maximum conductor cross section (use only copper conductors)

single wire or stranded wire	50 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	35 mm²

Mounting

DIN rail mounting with screw and quick mounting in accordance with EN 60715

Faceplate for 45 mm standard cutout, F-handle black

Name 	Art. No.	U_e	I_e DC-PV0	I_e DC-21B	Max. U_L PV	U_i*
KG80.T308/P1.VE2	70040670	800 V DC	60 A	60 A	1000 V DC	1000 V

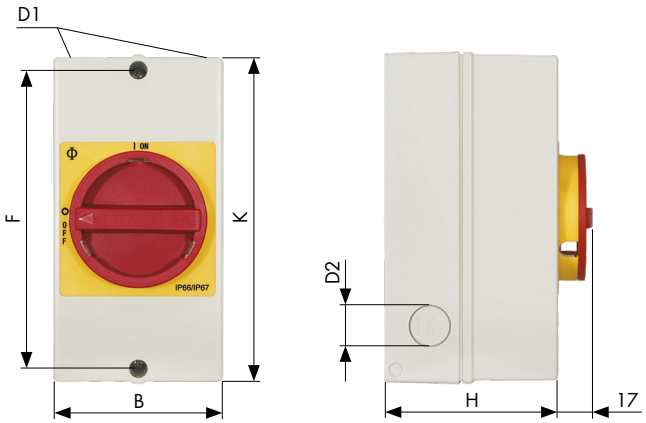
Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

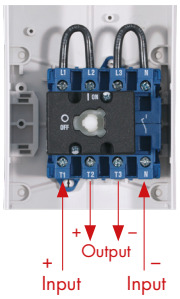
450 V DC : 18 A / 25 A / 32 A
500 V DC : 12 A / 18 A / 20 A

1 x 2-pole

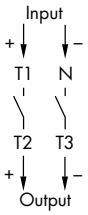
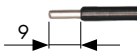
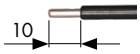
Switching program: 2-pole, 4 contacts per circuit (2 x 2 in series)

DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712





	KG20 KG32	KG41
B	85	100
D1	2 x Ø 25	2 x Ø 25
D2	Ø 20	Ø 25
F	150	178
H	82	93
K	160	190

Wiring diagram	Twist torque for clamping screws		Stripped length	
	KG20 / KG32	1,25 Nm	KG20 / KG32	 9
	KG41	1,80 Nm	KG41	 10

General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107

Utilization category for photovoltaic applications: DC-PV2 Connecting and disconnecting a PV circuit, where severe overcurrent may occur and where the current can flow in both directions

DC-21B Switching of resistive loads, including moderate overloads

Ambient temperature (enclosed): 50 °C over 24 hours with peaks of up to 55 °C

Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3, protection class IP 20

Maximum conductor cross section (use only copper conductors)

single wire or stranded wire	KG20 / KG32: 6 mm²	KG41: 16 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	KG20 / KG32: 4 mm²	KG41: 10 mm²

Mounting

Plastic enclosure, protection class IP 66 / 67, fully insulated, knock-out entries

Handle red, in OFF-position lockable with padlocks, front plate background yellow, cover coupling with interlock

Name	Art. No.	Name	Art. No.	U_e	I_e DC-PV2		I_e DC-21B		Max. U_i PV	U_i*
					50 °C [1]	60 °C [2]	50 °C [1]	60 °C [2]		
KG20.T204/P3.KL51V	70040671	KG20.T104/P3.KL51V	70046567	450 V DC	18 A	18 A	25 A	25 A	540 V DC	690 V
KG32.T204/P3.KL51V	70040672	KG32.T104/P3.KL51V	70046568	450 V DC	25 A	23 A	25 A	23 A	540 V DC	690 V
KG41.T204/P3.KL11V	70040673	KG41.T104/P3.KL11V	70046569	450 V DC	32 A	32 A	40 A	40 A	540 V DC	690 V
KG20.T204/P3.KL51V	70040671	KG20.T104/P3.KL51V	70046567	500 V DC	12 A	12 A	21 A	21 A	600 V DC	690 V
KG32.T204/P3.KL51V	70040672	KG32.T104/P3.KL51V	70046568	500 V DC	18 A	18 A	21 A	21 A	600 V DC	690 V
KG41.T204/P3.KL11V	70040673	KG41.T104/P3.KL11V	70046569	500 V DC	20 A	20 A	28 A	28 A	600 V DC	690 V

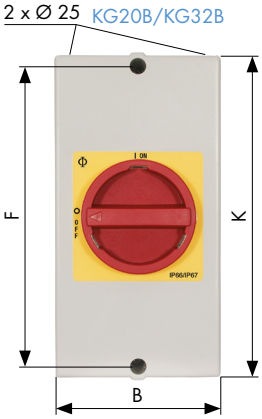
[1] enclosed up to 50 °C over 24 hours with peaks of up to 55 °C | [2] enclosed up to 60 °C over 24 hours with peaks of up to 65 °C
Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

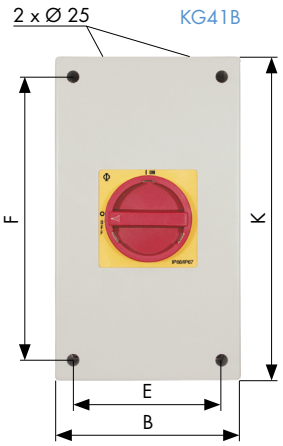
500 V DC : 25 A
650 V DC : 18 A / 25 A / 32 A
800 V DC : 12 A / 20 A

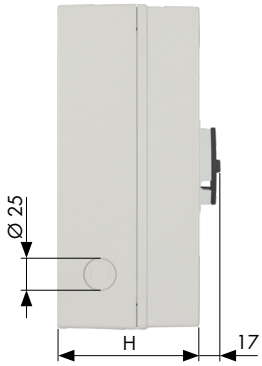
1 x 2-pole

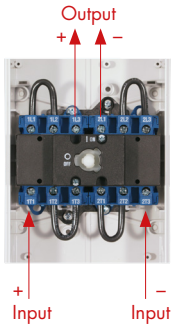
Switching program: 2-pole, 6 contacts per circuit (2 x 3 in series)

DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712

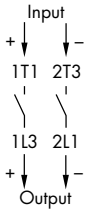








	KG20B KG32B	KG41B
B	100	145
E	–	124
F	178	229
H	93	107
K	190	250

Wiring diagram	Twist torque for clamping screws		Stripped length	
	KG20B / KG32B	1,25 Nm	KG20B / KG32B	9
	KG41B	1,80 Nm	KG41B	10

General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107

Utilization category for photovoltaic applications: DC-PV2 Connecting and disconnecting a PV circuit, where severe overcurrent may occur and where the current can flow in both directions

DC-21B Switching of resistive loads, including moderate overloads

Ambient temperature (enclosed): 50 °C over 24 hours with peaks of up to 55 °C (KG32B from 26 A: 35 °C over 24 hours with peaks of up to 40 °C)

Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3, protection class IP 20

Maximum conductor cross section (use only copper conductors)

single wire or stranded wire	KG20B / KG32B: 6 mm²	KG41B: 16 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	KG20B / KG32B: 4 mm²	KG41B: 10 mm²

Mounting

Plastic enclosure, protection class IP 66 / 67, fully insulated, knock-out entries

Handle red, in OFF-position lockable with padlocks, front plate background yellow, cover coupling with interlock

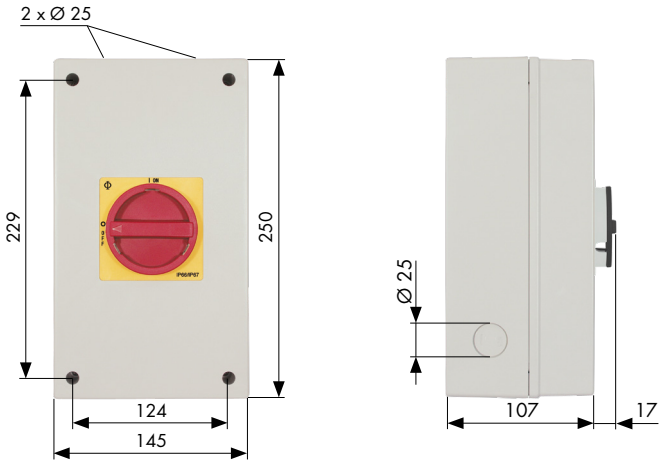
Name	Art. No.	Name	Art. No.	U_e	I_e DC-PV2		I_e DC-21B		Max. U_L PV	U_i*
					50 °C [1]	60 °C [2]	50 °C [1]	60 °C [2]		
KG20B.T206/P3.KL11V	70040674	KG20B.T106/P3.KL11V	70046570	650 V DC	18 A	18 A	25 A	22 A	780 V DC	1000 V
KG32B.T206/P3.KL11V	70040675	KG32B.T106/P3.KL11V	70046572	500 V DC	25 A	22 A	25 A	22 A	600 V DC	1000 V
KG41B.T206/P3.KL11V	70040676	KG41B.T106/P3.KL11V	70046573	650 V DC	32 A	32 A	40 A	40 A	780 V DC	1000 V
KG20B.T206/P3.KL11V	70040674	KG20B.T106/P3.KL11V	70046570	800 V DC	12 A	12 A	21 A	21 A	1000 V DC	1000 V
KG32B.T206/P3.KL11V	70040675	KG32B.T106/P3.KL11V	70046572	650 V DC	25 A	22 A	25 A	22 A	780 V DC	1000 V
KG41B.T206/P3.KL11V	70040676	KG41B.T106/P3.KL11V	70046573	800 V DC	20 A	20 A	28 A	28 A	1000 V DC	1000 V

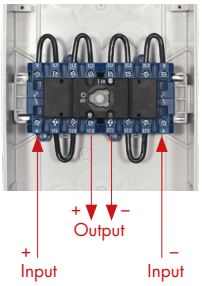
[1] enclosed up to 50 °C over 24 hours with peaks of up to 55 °C | [2] enclosed up to 60 °C over 24 hours with peaks of up to 65 °C
Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

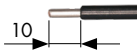
800 V DC : 18 A / 25 A / 32 A — 1 x 2-pole

Switching program: 2-pole, 8 contacts per circuit (2 x 4 in series)

DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712





Wiring diagram	Twist torque for clamping screws		Stripped length	
	KG20B / KG32B	1,25 Nm	KG20B / KG32B	 9
	KG41B	1,80 Nm	KG41B	 10

General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107

Utilization category for photovoltaic applications: DC-PV2 Connecting and disconnecting a PV circuit, where severe overcurrent may occur and where the current can flow in both directions

DC-21B Switching of resistive loads, including moderate overloads

Ambient temperature (enclosed): 50 °C over 24 hours with peaks of up to 55 °C

Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3, protection class IP 20

Maximum conductor cross section (use only copper conductors)

single wire or stranded wire	KG20B / KG32B: 6 mm²	KG41B: 16 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	KG20B / KG32B: 4 mm²	KG41B: 10 mm²

Mounting

Plastic enclosure, protection class IP 66 / 67, fully insulated, knock-out entries

Handle red, in OFF-position lockable with padlocks, front plate background yellow, cover coupling with interlock

Name	Art. No.	Name	Art. No.	U_e	I_e DC-PV2		I_e DC-21B		Max. U_L PV	U_i*
					50 °C [1]	60 °C [2]	50 °C [1]	60 °C [2]		
KG20B.T208/P3.KL11V	70040678	*KG20B.T108/P3.KL11V*	70046574	800 V DC	18 A	18 A	25 A	20 A	1000 V DC	1000 V
KG32B.T208/P3.KL11V	70040679	*KG32B.T108/P3.KL11V*	70046575	800 V DC	25 A	20 A	25 A	20 A	1000 V DC	1000 V
KG41B.T208/P3.KL11V	70040680	*KG41B.T108/P3.KL11V*	70046576	800 V DC	32 A	32 A	40 A	35 A	1000 V DC	1000 V

[1] enclosed up to 50 °C over 24 hours with peaks of up to 55 °C | [2] enclosed up to 60 °C over 24 hours with peaks of up to 65 °C

Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

600 V DC : 60 A
800 V DC : 60 A

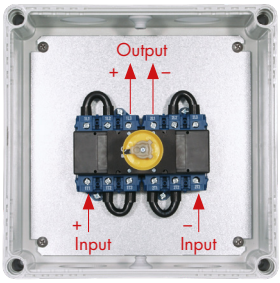
1 x 2-pole

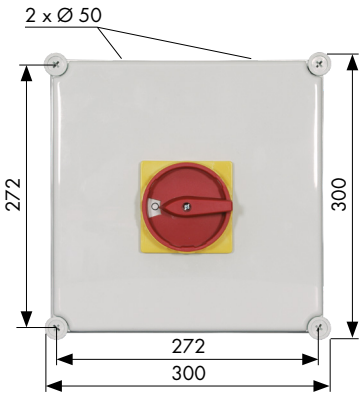
Switching program: 2-pole, 6 contacts per circuit (2 x 3 in series), 8 contacts per circuit (2 x 4 in series)

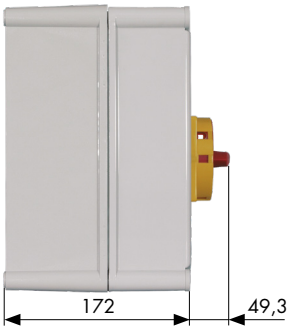
DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712

Switching program: 2-pole
6 contacts per circuit (2 x 3 in series)

650 V DC

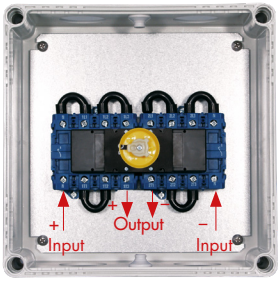


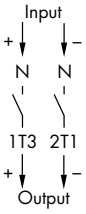




Switching program: 2-pole
8 contacts per circuit (2 x 4 in series)

800 V DC



Wiring diagram 650 V DC	Wiring diagram 800 V DC	Twist torque for clamping screws		Stripped length
		KG80C	3,00 Nm	

General Data	
Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107	
Utilization category for photovoltaic applications:	DC-PV0 Opening and closing a PV circuit to disconnect when no current is flowing
	DC-21B Switching of resistive loads, including moderate overloads
Ambient temperature (enclosed): 50 °C over 24 hours with peaks of up to 55 °C	
Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3	
Maximum conductor cross section (use only copper conductors)	
single wire or stranded wire	50 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	35 mm²

Mounting
Plastic enclosure, protection class IP 66 / 67, fully insulated, knock-out entries
Handle red, in OFF-position lockable with padlocks, front plate background yellow, cover coupling with interlock

Name	Art. No.	Name	Art. No.	U_e	I_e DC-PV0		I_e DC-21B		Max. U_L PV	U_i*
					50 °C [1]	60 °C [2]	50 °C [1]	60 °C [2]		
KG80C.T206/P3.STM	70040683	*KG80C.T106/P3.STM*	70046577	650 V DC	60 A	60 A	60 A	60 A	750 V DC	1000 V
KG80C.T208/P3.STM	70040684	*KG80C.T108/P3.STM*	70046578	800 V DC	60 A	55 A	60 A	55 A	1000 V DC	1000 V

[1] enclosed up to 50 °C over 24 hours with peaks of up to 55 °C | [2] enclosed up to 60 °C over 24 hours with peaks of up to 65 °C

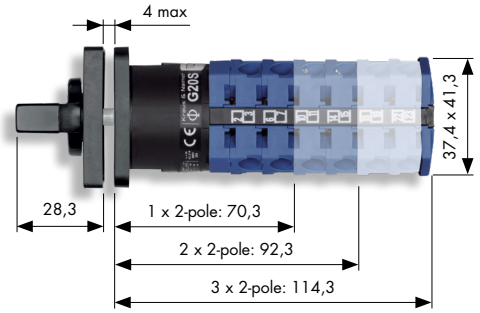
Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

500 V DC : 20 A — 1 x 2-pole, 2 x 2-pole, 3 x 2-pole

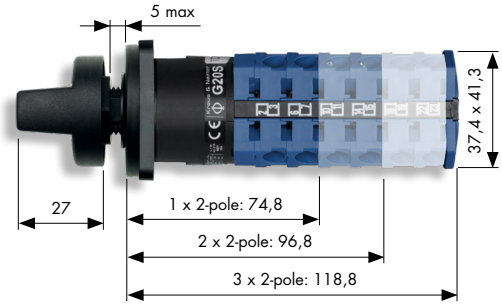
Switching program: 1 x 2-pole, 2 x 2-pole and 3 x 2-pole

DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712

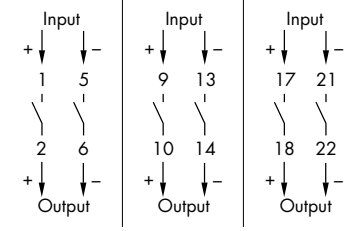
4-hole mounting



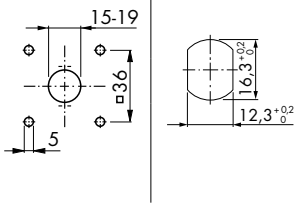
16 mm single-hole mounting



Wiring diagrams



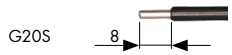
Hole pattern



Twist torque for clamping screws

G20S	0,6 Nm

Stripped length



General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107	
Utilization category for photovoltaic applications: DC-PV2	Connecting and disconnecting a PV circuit, where severe overcurrent may occur and where the current can flow in both directions
Ambient temperature (open): 55 °C over 24 hours with peaks of up to 65 °C over 8 hours	
Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3, protection class IP 20	
Maximum conductor cross section (use only copper conductors)	
single wire or stranded wire	2 x 2,5 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	2 x 2,5 mm²

Mounting	Mounting 16 mm single-hole mounting
Panel mounting with 4-hole mounting, maximum panel thickness of 4 mm	Protection class IP66, maximum panel thickness of 5 mm
Faceplate background, brushed aluminum, standard handle	B-handle

Name 4-hole mounting	Art. No.	Name 16 mm single-hole mounting	Art. No.	Pole	U_e	I_e DC-PV2	Max. U_L PV	U_i*
G20S.TD3102.E	70009899	G20S.TD3102.FT16	70046692	1 x 2-pole	500 V DC	20 A	630 V DC	630 V
G20S.TD3104.EF	70009900	G20S.TD3104.FT16	70046693	2 x 2-pole	500 V DC	20 A	630 V DC	630 V
G20S.TD3106.E	70009901	G20S.TD3106.FT16	70046694	3 x 2-pole	500 V DC	20 A	630 V DC	630 V

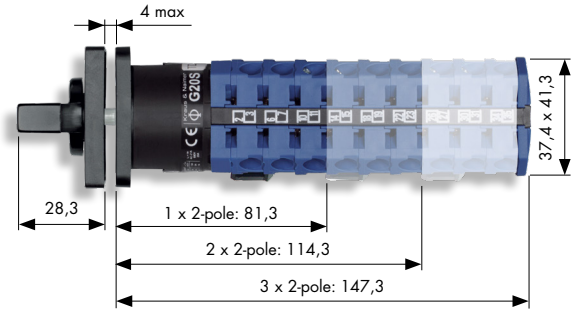
Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

750 V DC : 20 A — 1 x 2-pole, 2 x 2-pole, 3 x 2-pole

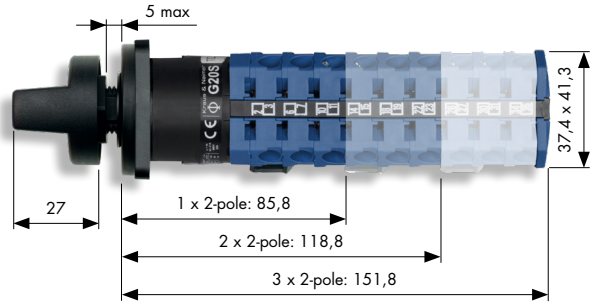
Switching program: 1 x 2-pole, 2 x 2-pole and 3 x 2-pole

DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712

4-hole mounting

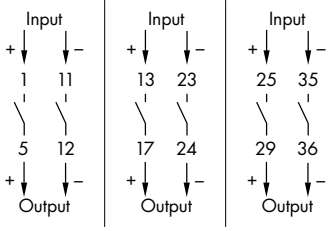


16 mm single-hole mounting



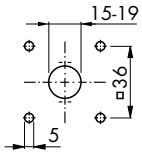
Wiring diagrams

<----------- 3 x 2-pole ----------->
<---------- 2 x 2-pole ---------->
<- 1 x 2-pole ->

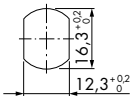


Hole pattern

4-hole



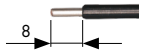
16 mm



Twist torque for clamping screws

G20S	0,6 Nm

Stripped length



General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107	
Utilization category for photovoltaic applications: DC-PV2 Connecting and disconnecting a PV circuit, where severe overcurrent may occur and where the current can flow in both directions	
Ambient temperature (open): 55 °C over 24 hours with peaks of up to 65 °C over 8 hours	
Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3, protection class IP 20	
Maximum conductor cross section (use only copper conductors)	
single wire or stranded wire	2 x 2,5 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	2 x 2,5 mm²
Mounting	**Mounting 16 mm single-hole mounting**
Panel mounting with 4-hole mounting, maximum panel thickness of 4 mm	Protection class IP66, maximum panel thickness of 5 mm
Faceplate background, brushed aluminum, standard handle	B-handle

Name 4-hole mounting	Art. No.	Name 16 mm single-hole mounting	Art. No.	Pole	U_e	I_e DC-PV2	Max. U_L PV	U_i*
G20S.TD3351.E	70009912	G20S.TD3351.FT16	70046695	1 x 2-pole	750 V DC	20 A	1000 V DC	1000 V
G20S.TD3352.E	70009913	G20S.TD3352.FT16	70046696	2 x 2-pole	750 V DC	20 A	1000 V DC	1000 V
G20S.TD3353.E	70009501	G20S.TD3353.FT16	70046697	3 x 2-pole	750 V DC	20 A	1000 V DC	1000 V

Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

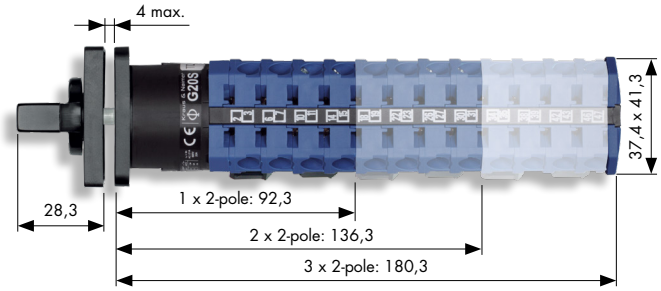
1000 V DC : 20 A

1 x 2-pole, 2 x 2-pole, 3 x 2-pole

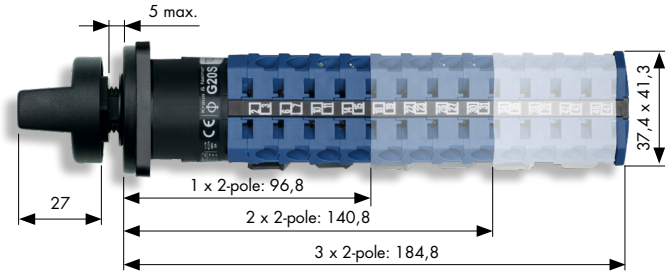
Switching program: 1 x 2-pole, 2 x 2-pole and 3 x 2-pole

DC-side disconnectors for
photovoltaic power supply systems in accordance with IEC 60364-712

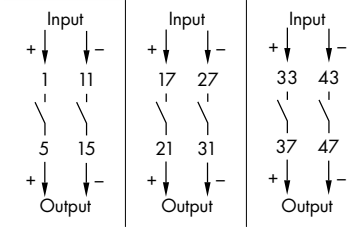
4-hole mounting



16 mm single-hole mounting

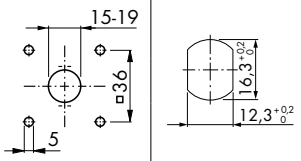


Wiring diagrams



Hole pattern

4-hole	16 mm



Twist torque for clamping screws

G20S	0,6 Nm

Stripped length

G20S	8

General Data

Switch disconnectors in accordance with EN 60947-3, VDE 0660 part 107	
Utilization category for photovoltaic applications: DC-PV2	Connecting and disconnecting a PV circuit, where severe overcurrent may occur and where the current can flow in both directions
Ambient temperature (open): 55 °C over 24 hours with peaks of up to 65 °C over 8 hours	
Finger-safe terminals in accordance with VDE 0660-514 and DGUV V3, protection class IP 20	
Maximum conductor cross section (use only copper conductors)	
single wire or stranded wire	2 x 2,5 mm²
flexible wire without / with wire-end ferrules (according to DIN 46228)	2 x 2,5 mm²

Mounting	Mounting 16 mm single-hole mounting
Panel mounting with 4-hole mounting, maximum panel thickness of 4 mm	Protection class IP66, maximum panel thickness of 5 mm
Faceplate background, brushed aluminum, standard handle	B-handle

Name 4-hole mounting	Art. No.	Name 16 mm single-hole mounting	Art. No.	Pole	U_e	I_e DC-PV2	Max. U_L PV	U_i*
G20S.TD3202.E	70009394	G20S.TD3202.FT16	70017387	1 x 2-pole	1000 V DC	20 A	1000 V DC	1000 V
G20S.TD3204.E	70009914	G20S.TD3204.FT16	70017388	2 x 2-pole	1000 V DC	20 A	1000 V DC	1000 V
G20S.TD3206.E	70009502	G20S.TD3206.FT16	70017390	3 x 2-pole	1000 V DC	20 A	1000 V DC	1000 V

Data valid only if the pre-assembled bridges have not been modified.
* Valid for ungrounded or midpoint-grounded PV grids, overvoltage category III, pollution degree III

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