



Sample image

# CA50S

**Type Size: S1**
**Classification Contact: Rigid contact bridge**
**Classification Contact Mat: Silver**
**Classification Terminal: Screw terminal**
**IEC 60947-3 EN 60947-3, VDE 0660 Teil 107**
**Rated insulation voltage  $U_i$** 

Voltage (V)	AC / DC
690	AC

**Rated impulse withstand voltage  $U_{imp}$** 

Voltage (kV)	Overtoltage category	Pollution degree	Supply system	Function
6	III	3	Valid for lines with grounded common neutral termination	Switch

**Rated uninterrupted current  $I_u$ /Ith**

Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements
50	55	60	Ambient temperature +55°C during 24 hours with peaks up to +60°C

**Conventional enclosed thermal current  $I_{the}$** 

Current (A)	Ambient temperature (°C)	Peak temperature (°C)	Additional requirements	No. of stages (from - to)	Mounting	Mounting size
50	35	40	Ambient temperature +35°C during 24 hours with peaks up to +40°C	--	--	--

**Rated operational current  $I_e$** 

Utilization category	Voltage (V)	Current (A)
AC-15	220 - 240	16
AC-15	380 - 440	7
AC-20A	690	50
AC-21A	20 - 690	50
AC-22A	20 - 690	50

**Rated operational power**

Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-2	220 - 240	3	3	11
AC-2	380 - 440	3	3	22
AC-2	500 - 500	3	3	30
AC-2	660 - 690	3	3	30
AC-3	220 - 240	3	3	11
AC-3	380 - 440	3	3	18,50
AC-3	500 - 500	3	3	18,50
AC-3	660 - 690	3	3	18,50
AC-3	110 - 120	1	2	3
AC-3	220 - 240	1	2	6
AC-3	380 - 440	1	2	11
AC-3	500 - 500	1	2	15
AC-3	660 - 690	1	2	11
AC-4	220 - 240	3	3	4
AC-4	380 - 440	3	3	7
AC-4	500 - 500	3	3	7
AC-4	660 - 690	3	3	7,50
AC-4	110 - 120	1	2	1,20
AC-4	220 - 240	1	2	2,40
AC-4	380 - 440	1	2	4
AC-23A	220 - 240	3	3	11
AC-23A	380 - 440	3	3	22
AC-23A	500 - 500	3	3	22
AC-23A	660 - 690	3	3	22
AC-23A	110 - 120	1	2	2,50
AC-23A	220 - 240	1	2	5,50

Rated operational power				
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-23A	380 - 440	1	2	11
AC-23A	500 - 500	1	2	15
AC-23A	660 - 690	1	2	10

Max. Fuse rating IEC		
Fuse characteristic	No. of Fuses	Current (A)
gG	1	63

**UL60947-4-1 , UL508**

Rated insulation voltage Ui		
Voltage (V)	AC / DC	
600	AC	

Rated thermal current			
Current (A)	Ambient temperature (°C)	Additional Text	
55	0 - 40	-	

**GENERAL TECHNICAL INFORMATION**

Tightening torque of screws		
tightening torque (Nm)		tightening torque (lb-in)
1,80		16


Rated short-time withstand current low		
Time (s)		Current (A)
1		950

Size of conductor				
composition of conductor	Min. / Max. value	No. of conductor per terminal	Cross section (mm <sup>2</sup> ) or (AWG/kcmil)	Material of the wire
Flexible wire	Max.	1	AWG 6	Copper
Flexible wire	Max.	1	10mm <sup>2</sup>	Copper
Single-core or stranded wire	Max.	1	AWG 6	Copper
Single-core or stranded wire	Max.	1	16mm <sup>2</sup>	Copper
Flexible wire with ferrule according to DIN 46228	Max.	1	10mm <sup>2</sup>	Copper

Approbations	
Specification	Marking

CE marking	
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UK Directives	
IEC 60947-3; EN 60947-3; VDE 0660 Teil107	<b>IEC 60947-3 EN 60947-3</b>

UL 60947-4-1; CSA C22.2 No. 60947-4-1	
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Power loss per pole	
	Power (W)
	1,80

Conditions during transport and storing			
Minimum temperature (°C)	Maximum temperature (°C)	additional requirements	
-40	85	In case of temperatures below -5°C no shock load permissible	

General Information	
Text	
- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.	
- Terminals with factory fitted jumper links are tightened during production for loss prevention. When opening the terminal clamps, make sure that no factory fitted links get lost and that all wire connections are properly seated.	
- After wiring, ALL terminal screws must be tightened to the specified torque values.	
- The protection class of the selected mounting type may vary if optional extras are used.	
- Do not lubricate or treat contacts.	
- Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.	
- After installation of the switches the spacings between the terminals must be sufficient to fulfill the requirement of the applicable standards.	

Operating temperature		
Min. Temperature [°C]		Max. Temperature [°C]
-5		60