



Sample image

## CA20

Type Size: S0

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 / DC

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

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

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

Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements
25	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
25	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	8
AC-15	380 - 440	5
AC-20A	690	25
AC-21A	20 - 690	25
AC-22A	220 - 500	25
AC-22A	660 - 690	25

**Rated operational power**

Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-2	220 - 240	3	3	5,50
AC-2	380 - 440	3	3	11
AC-2	500 - 500	3	3	15
AC-2	660 - 690	3	3	13
AC-3	220 - 240	3	3	4
AC-3	380 - 440	3	3	7,50
AC-3	500 - 500	3	3	7,50
AC-3	660 - 690	3	3	7,50
AC-3	110 - 120	1	2	1,50
AC-3	220 - 240	1	2	3
AC-3	380 - 440	1	2	3,70
AC-4	220 - 240	3	3	1,50
AC-4	380 - 440	3	3	3
AC-4	500 - 500	3	3	3
AC-4	660 - 690	3	3	3
AC-4	110 - 120	1	2	0,45
AC-4	220 - 240	1	2	1,10
AC-4	380 - 440	1	2	2,20
AC-23A	220 - 240	3	3	5,50
AC-23A	380 - 440	3	3	11
AC-23A	500 - 500	3	3	11
AC-23A	660 - 690	3	3	11
AC-23A	110 - 120	1	2	1,50
AC-23A	220 - 240	1	2	3

Rated operational power				
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-23A	380 - 440	1	2	5,50

Max. Fuse rating IEC				
Fuse characteristic	No. of Fuses			Current (A)
gG	1			35

### UL60947-4-1, UL508

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

Rated thermal current			
Current (A)	Ambient temperature (°C)	Additional Text	
30	0 - 40	-	

### CSA

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

Rated thermal current			
Current (A)	Ambient temperature (°C)	Additional Text	
30	0 - 40	-	

### GENERAL TECHNICAL INFORMATION

Tightening torque of screws		
	tightening torque (Nm)	tightening torque (lb-in)
	1	9


Rated short-time withstand current Icw		
	Time (s)	Current (A)
	1	280

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
Solid wire	Min.	1	0.75mm <sup>2</sup>	Copper
Solid wire	Min.	2	0.75mm <sup>2</sup>	Copper
Flexible wire	Min.	1	1.5mm <sup>2</sup>	Copper
Flexible wire	Max.	2	AWG 12	Copper
Flexible wire	Max.	2	4mm <sup>2</sup>	Copper
Flexible wire	Min.	2	1.5mm <sup>2</sup>	Copper
Single-core or stranded wire	Max.	2	AWG 10	Copper
Single-core or stranded wire	Max.	2	4mm <sup>2</sup>	Copper
Flexible wire with ferrule according to DIN 46228	Min.	1	1mm <sup>2</sup>	Copper
Flexible wire with ferrule according to DIN 46228	Max.	2	2.5mm <sup>2</sup>	Copper
Flexible wire with ferrule according to DIN 46228	Min.	2	1mm <sup>2</sup>	Copper


Approbations	
Specification	Marking

EAC 

CE marking 

UK Directives  
IEC 60947-3; EN 60947-3; VDE 0660 Teil107 

UL 60947-4-1; CSA C22.2 No. 60947-4-1 

CSA C.22.2 No.14 

GB/T14048.3 

Russian Maritime Register of Shipping 

Power loss per pole	
	<i>Power (W)</i>
	0,90

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

Shock / Vibration	
<i>Type of oscillation</i>	<i>Values</i>
Resistance to vibration	Min. 4g, 2-100Hz, 1,6mm
Resistance to shock	Min. 5g, 6ms
Resistance to shock	min. 5g, 30ms
Resistance to vibration	IEC 61373 (1999) Category 1, Class B

**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.
  - DC switching capacity applies to ON/OFF switches.
  - 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		
	<i>Min. Temperature [°C]</i>	<i>Max. Temperature [°C]</i>
	-25	60