



## CA20

Type Size: S0

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

Sample image

### 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)	Overtoltage category	Pollution degree	Supply system	Function
6	III	3	Valid for lines with grounded common neutral termination	Switch / Switch disconnecter

#### Rated uninterrupted current $I_u/I_{th}$

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

Rated operational power				
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
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
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

**IEC 60947-3**  
**EN 60947-3**

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



CSA C.22.2 No.14



Approbations	Marking
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GB/T14048.3



Russian Maritime Register of Shipping



Power loss per pole	Power (W)
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0,90

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

Shock / Vibration	Values
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Type of oscillation

Values

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
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Text

- DC switching capacity applies to ON/OFF switches.
- 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.
- Use copper wire only. Do not coat the wire end with tin.
- Terminals with factory fitted jumper links are tightened during production. Take care during installation to ensure factory fitted links are not lost by undoing both sides of linked terminals. After wiring, all terminal screws must be tightened to recommended torque specifications.
- 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]

Min. Temperature [°C]

-25

Max. Temperature [°C]

60