



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) | 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 |
| 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 | | No. of Fuses | | Current (A) |
|----------------------|--|--------------|--|-------------|
| Fuse characteristic | | | | |
| 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 ²) or (AWG/kcmil) | Material of the wire |
| Solid wire | Min. | 1 | 0.75mm ² | Copper |
| Solid wire | Min. | 2 | 0.75mm ² | Copper |
| Flexible wire | Min. | 1 | 1.5mm ² | Copper |
| Flexible wire | Max. | 2 | AWG 12 | Copper |
| Flexible wire | Max. | 2 | 4mm ² | Copper |
| Flexible wire | Min. | 2 | 1.5mm ² | Copper |
| Single-core or stranded wire | Max. | 2 | AWG 10 | Copper |
| Single-core or stranded wire | Max. | 2 | 4mm ² | Copper |
| Flexible wire with ferrule according to DIN 46228 | Min. | 1 | 1mm ² | Copper |
| Flexible wire with ferrule according to DIN 46228 | Max. | 2 | 2.5mm ² | Copper |
| Flexible wire with ferrule according to DIN 46228 | Min. | 2 | 1mm ² | 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 |