

Sample image

KA40

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 |

Rated impulse withstand voltage U_{imp}

| Voltage (kV) | Overtension category | Pollution degree | Supply system | Function |
|--------------|----------------------|------------------|--|----------|
| 6 | III | 3 | Valid for lines with grounded common neutral termination | switch |

Rated uninterrupted current I_u /I_{th}

| Current (A) | Ambient temperature (°C) | Peak temperature (°C) | additional requirements |
|-------------|--------------------------|-----------------------|--|
| 40 | 50 | 55 | Ambient temperature +50°C during 24 hours with peaks up to +55°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 |
|-------------|--------------------------|-----------------------|--|---------------------------|----------|---------------|
| 40 | 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-20A | 690 | 40 |
| AC-21A | 20 - 690 | 40 |
| AC-22A | 220 - 500 | 40 |
| AC-22A | 660 - 690 | 40 |

Rated operational power

| Utilization category | Voltage (V) | No. of phases | No. of poles | Power (kW) |
|----------------------|-------------|---------------|--------------|------------|
| AC-3 | 220 - 240 | 3 | 3 | 7,50 |
| AC-3 | 380 - 440 | 3 | 3 | 15 |
| AC-3 | 500 - 500 | 3 | 3 | 15 |
| AC-3 | 660 - 690 | 3 | 3 | 15 |
| AC-23A | 220 - 240 | 3 | 3 | 11 |
| AC-23A | 380 - 440 | 3 | 3 | 20 |
| AC-23A | 500 - 500 | 3 | 3 | 25 |
| AC-23A | 660 - 690 | 3 | 3 | 25 |

Max Fuse Rating IEC

| Fuse characteristic | No. of Fuses | Current (A) |
|---------------------|--------------|-------------|
| gG | 1 | 50 |

UL60947-4-1, UL508

Rated insulation voltage U_i

| Voltage (V) | AC / DC |
|-------------|---------|
| 600 | AC |

Rated thermal current

| Current (A) | Ambient temperature (°C) | Additional Text |
|-------------|--------------------------|-----------------|
| 42 | 0 - 40 | -- |

General Information
Text

- Use fuses only

- WARNING: The opening of the branch-circuit protective device may be an indication that a fault current has been interrupted. To reduce the risk of fire or electric shock, current-carrying parts and other components of the controller shall be examined and replaced if damaged. AVERTISSEMENT: Le déclenchement du dispositif de protection de la dérivation peut signifier qu'un courant de fuite a été interrompu. Pour réduire les risques d'incendie et de choc électrique, les pièces porteuses de courant et autres pièces de la commande doivent être examinées et remplacées au besoin.

GENERAL TECHNICAL INFORMATION

Tightening torque of screws


| tightening torque (Nm) | tightening torque (lb-in) |
|------------------------|---------------------------|
| 2 | 18 |

| Rated short-time withstand current low | |
|--|-------------|
| Time (s) | Current (A) |
| 1 | 850 |


| 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 |
| flexible wire | Max. | 1 | AWG 6 | Copper |
| flexible wire | Min. | 1 | 4mm ² | Copper |
| flexible wire | Max. | 1 | 16mm ² | Copper |
| flexible wire | Min. | 1 | AWG 14 | Copper |
| Single-core or stranded wire | Min. | 1 | 2.5mm ² | Copper |
| Single-core or stranded wire | Max. | 1 | AWG 4 | Copper |
| Single-core or stranded wire | Min. | 1 | AWG 14 | Copper |
| Single-core or stranded wire | Max. | 1 | 25mm ² | Copper |
| flexible wire with sleeve | Min. | 1 | 2.5mm ² | Copper |
| flexible wire with sleeve | Max. | 1 | 16mm ² | Copper |

| Approbations | |
|-----------------------|---|
| Specification | Marking |
| CE marking |  |
| EAC |  |
| UK Directives | |
| Lloyd's Register EMEA |  |

| | |
|---|---|
| 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 |  |
|------------------|---|

| | |
|-------------|---|
| GB/T14048.3 |  |
|-------------|---|

| Power loss per pole | |
|---------------------|--|
| Power (W) | |
| 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 | |
|-------------------------|-------------------------|
| Type of oscillation | Values |
| Resistance to vibration | Min. 4g, 2-100Hz, 1,6mm |
| Resistance to shock | min. 5g, 6ms |

| General Information | |
|--|--|
| Text | |
| - 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. | |
| - For devices with lockable handles: the position of the handle of these devices shall be marked to guide proper operation. | |
| - The "ON" and "OFF" position may be marked using the symbols "I" and "O" according IEC60417, Symbols 5007 and 5008. | |

| Operating temperature | |
|-----------------------|-----------------------|
| Min. Temperature [°C] | Max. Temperature [°C] |
| -5 | 55 |