



Sample image

# KG105

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 Ui

| Voltage (V) | AC / DC |
|-------------|---------|
| 690         | AC      |

### Rated impulse withstand voltage Uimp

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

### Rated uninterrupted current Iu/Ith

| Current (A) | Ambient temperature (°C) | Peak temperature (°C) | additional requirements  |
|-------------|--------------------------|-----------------------|--|
| 125         | 50                       | 55                    | Ambient temperature +50°C during 24 hours with peaks up to +55°C |

### Conventional enclosed thermal current Ithe

| Current (A) | Ambient temperature (°C) | Peak temperature (°C) | Additional requirements  | No. of stages (from - to) | Mounting | Mounting size |
|-------------|--------------------------|-----------------------|--|---------------------------|----------|---------------|
| 125         | 35                       | 40                    | Ambient temperature +35°C during 24 hours with peaks up to +40°C | --                        | --       | --            |

### Rated operational current Ie

| Utilization category | Voltage (V) | Current (A) |
|----------------------|-------------|-------------|
| AC-32A               | 20 - 400    | 125         |
| AC-20A               | 690         | 125         |
| AC-21A               | 20 - 690    | 125         |
| AC-22A               | 220 - 500   | 125         |
| AC-22A               | 660 - 690   | 90          |

### Rated operational power

| Utilization category | Voltage (V) | No. of phases | No. of poles | Power (kW) |
|----------------------|-------------|---------------|--------------|------------|
| AC-3                 | 220 - 240   | 3             | 3            | 22         |
| AC-3                 | 380 - 440   | 3             | 3            | 37         |
| AC-3                 | 500 - 500   | 3             | 3            | 45         |
| AC-3                 | 660 - 690   | 3             | 3            | 22         |
| AC-23A               | 220 - 240   | 3             | 3            | 25         |
| AC-23A               | 380 - 440   | 3             | 3            | 45         |
| AC-23A               | 500 - 500   | 3             | 3            | 55         |
| AC-23A               | 660 - 690   | 3             | 3            | 30         |

### Max Fuse Rating IEC

| Fuse characteristic | No. of Fuses | Current (A) |
|---------------------|--------------|-------------|
| gG                  | 1            | 125         |

## UL60947-4-1, UL508

### Rated insulation voltage Ui

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

### Rated thermal current

| Current (A) | Ambient temperature (°C) | Additional Text  |
|-------------|--------------------------|--|
| 125         | 0 - 40                   | ON-OFF switch (Valid when connected with wire rated for 75°C)      |
| 115         | 0 - 40                   | Change over switch (Valid when connected with wire rated for 75°C) |

### General Information

#### Text

- The operating handle and position indicating means to be used with these manual motor controllers should be provided from the manufacturer, or the operating handle and position indicating means to be used should have been previously evaluated in combination with the manual motor controllers.
- When intended for use as a motor disconnecter the device shall be provided with a method of being locked in the OFF-position.

**GENERAL TECHNICAL INFORMATION**

| Tightening torque of screws |                               |                                  |
|-----------------------------|-------------------------------|----------------------------------|
|                             | <i>tightening torque (Nm)</i> | <i>tightening torque (lb-in)</i> |
|                             | 3                             | 27                               |

| Rated short-time withstand current Icw |                 |                    |
|--|-----------------|--------------------|
|  | <i>Time (s)</i> | <i>Current (A)</i> |
|  | 1               | 2000               |

| Size of conductor                                 |                          |                                      |  |                             |
|---|--------------------------|--------------------------------------|--|-----------------------------|
| <i>composition of conductor</i>                   | <i>Min. / Max. value</i> | <i>No. of conductor per terminal</i> | <i>Cross section (mm<sup>2</sup>) or (AWG/kcmil)</i> | <i>Material of the wire</i> |
| solid wire  | Min.                     | 1                                    | 2.5mm <sup>2</sup>                                   | Copper                      |
| flexible wire                                     | Min.                     | 1                                    | 4mm <sup>2</sup>                                     | Copper                      |
| flexible wire                                     | Max.                     | 1                                    | 35mm <sup>2</sup>                                    | Copper                      |
| flexible wire                                     | Max.                     | 1                                    | AWG 2  | Copper                      |
| Single-core or stranded wire                      | Max.                     | 1                                    | AWG 1/0  | Copper                      |
| Single-core or stranded wire                      | Max.                     | 1                                    | 50mm <sup>2</sup>                                    | Copper                      |
| flexible wire with sleeve                         | Max.                     | 1                                    | 35mm <sup>2</sup>                                    | Copper                      |
| flexible wire with ferrule according to DIN 46228 | Min.                     | 1                                    | 2.5mm <sup>2</sup>                                   | Copper                      |

| Approbations         |                |
|----------------------|----------------|
| <i>Specification</i> | <i>Marking</i> |

EAC



CE marking



UK Directives

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

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

IEC 60947-6-1

**IEC 60947-6-1**  
**EN 60947-6-1**

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



GB/T14048.3



Russian Maritime Register of Shipping



Power loss per pole

*Power (W)*

3,80

Conditions during transport and storing

*Minimum temperature (°C)*

-40

*Maximum temperature (°C)*

85

*additional requirements*

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. 6g, 6ms

General Information

*Text*

- EMC Note: This device is suitable for use in environment A and B.

- 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.

Operating temperature

*Min. Temperature [°C]*

-5

*Max. Temperature [°C]*

55



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