

According to IEC 60947-3, EN 60947-3, VDE 0660 part 107



| Rated Thermal Current $I_U/I_{th}/I_{the}$                                           |                                                                                     |                    |                                                    | A               | 20                       |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|----------------------------------------------------|-----------------|--------------------------|
| Rated Insulation Voltage $U_i$ <sup>1</sup>                                          |                                                                                     |                    |                                                    | V               | 690                      |
| Rated Impulse Withstand Voltage $U_{imp}$                                            |                                                                                     |                    |                                                    | kV              | 4                        |
| Rated Operational Current $I_e$                                                      |                                                                                     |                    |                                                    |                 |                          |
| AC-21A                                                                               | Switching of resistive loads, including moderate overloads                          |                    |                                                    | A               | 20                       |
| AC-22A                                                                               | Switching of combined resistive or low inductive loads including moderate overloads |                    | 220 V–500 V<br>660 V–690 V                         | A               | 20<br>16                 |
| Rated Utilization Category                                                           |                                                                                     |                    |                                                    |                 |                          |
| AC-3                                                                                 | Direct-on-line starting                                                             | 3 phase,<br>3 pole | 220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V | kW              | 2,2<br>3,7<br>3,7<br>3,7 |
|                                                                                      |                                                                                     | 1 phase,<br>2 pole | 220 V–240 V<br>380 V–440 V                         | kW              | 1,1<br>1,5               |
| AC-23A                                                                               | Frequent switching of motors or other high inductive loads                          | 3 phase,<br>3 pole | 220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V | kW              | 3<br>5,5<br>5,5<br>5,5   |
|                                                                                      |                                                                                     | 1 phase,<br>2 pole | 220 V–240 V<br>380 V–440 V                         | kW              | 1,5<br>2,2               |
| Short Circuit Protection                                                             |                                                                                     |                    |                                                    |                 |                          |
| Max. fuse size                                                                       |                                                                                     | gG-characteristic  |                                                    | A               | 20                       |
| Rated short-time withstand current                                                   |                                                                                     | (1 s-current)      |                                                    | A               | 130                      |
| For connections with insulated ring and fork type cable terminal - copper wires only |                                                                                     |                    |                                                    |                 |                          |
| Single-core or stranded wire                                                         |                                                                                     |                    |                                                    | mm <sup>2</sup> | 2,5                      |
| Flexible wire                                                                        |                                                                                     |                    |                                                    | mm <sup>2</sup> | 2,5                      |
| Flexible wire with sleeving in accordance with DIN 46228                             |                                                                                     |                    |                                                    | mm <sup>2</sup> | 2,5                      |

<sup>1</sup> Valid for lines with grounded common neutral termination, overvoltage category III, Other values on request.

### Miscellaneous

|                                      |                                                                                |                                                                                              |
|--------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Tightening torque of terminal screw: | 0,8 Nm (7 lb-in)                                                               |                                                                                              |
| Minimum Voltage:                     | on request                                                                     |                                                                                              |
| Power loss per contact at $I_U$ :    | 0,9 W                                                                          |                                                                                              |
| Resistance to vibration:             | on request                                                                     |                                                                                              |
| Resistance to shock:                 | on request                                                                     |                                                                                              |
| Min. Ambient Temperature of Stages:  | -5 °C                                                                          |                                                                                              |
| Max. Ambient Temperature of Stages:  | open at 100 % $I_U/I_{th}$<br>enclosed at 100 % $I_{the}$                      | 50 °C during 24 hours with peaks up to 55 °C<br>35 °C during 24 hours with peaks up to 40 °C |
| Storage temperature:                 | -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible) |                                                                                              |

### Approvals and Standards

|                       |       |    |     |
|-----------------------|-------|----|-----|
| IEC 60947<br>EN 60947 | UL US | SE | ERC |
|-----------------------|-------|----|-----|

### USA / Canada



|                                                |                                                        |                   |                                |     |        |     |
|------------------------------------------------|--------------------------------------------------------|-------------------|--------------------------------|-----|--------|-----|
| Rated Thermal Current $I_U/I_{th}/I_{the}$     |                                                        |                   |                                |     | A      | 20  |
| Rated Insulation Voltage $U_i$                 |                                                        |                   |                                |     | V      | 300 |
| Rated Operational Current $I_e$                |                                                        |                   |                                |     |        |     |
| Pilot Duty:                                    |                                                        |                   | Heavy                          | VAC | A300   |     |
| Ampere Rating                                  | Resistive or low inductive loads                       | ON/OFF<br>1-0-2   | 300 V                          | A   | 20     |     |
|                                                |                                                        |                   | 300 V                          |     | 20     |     |
| Max. Permissible Wire Gage - copper wires only |                                                        |                   |                                |     |        |     |
| Single-core or stranded wire                   |                                                        |                   |                                | AWG | 12     |     |
| Flexible wire: AWG wire (without sleeving)     |                                                        |                   |                                | AWG | 12     |     |
| Ratings                                        |                                                        |                   |                                |     |        |     |
|                                                | Standard motor load,<br>DOL - Rating<br>(similar AC-3) | 3 phase<br>3 pole | 110 V – 120 V<br>220 V – 240 V | HP  | 1<br>2 |     |

### Miscellaneous

|                                            |                                                                                |                                              |
|--------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------|
| Tightening torque of terminal screw:       | 0,8 Nm (7 lb-in)                                                               |                                              |
| Minimum Voltage:                           | on request                                                                     |                                              |
| Power loss per contact at I <sub>U</sub> : | 0,9 W                                                                          |                                              |
| Resistance to vibration:                   | on request                                                                     |                                              |
| Resistance to shock:                       | on request                                                                     |                                              |
| Min. Ambient Temperature of Stages:        | -5 °C                                                                          |                                              |
| Max. Ambient Temperature of Stages:        | open at 100 % I <sub>U</sub> /I <sub>th</sub>                                  | 50 °C during 24 hours with peaks up to 55 °C |
|                                            | enclosed at 100 % I <sub>the</sub>                                             | 35 °C during 24 hours with peaks up to 40 °C |
| Storage temperature:                       | -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible) |                                              |

### Approvals and Standards

IEC 60947  
EN 60947

