

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



| Rated Thermal Current $I_U/I_{th}/I_{the}$               |                                                                                     |                    |                                                    |                 |                      |
|----------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|----------------------------------------------------|-----------------|----------------------|
|                                                          |                                                                                     |                    |                                                    | A               | 150                  |
| Rated Insulation Voltage $U_i$ <sup>1</sup>              |                                                                                     |                    |                                                    |                 |                      |
|                                                          |                                                                                     |                    |                                                    | V               | 690                  |
| Rated Impulse Withstand Voltage $U_{imp}$                |                                                                                     |                    |                                                    |                 |                      |
|                                                          |                                                                                     |                    |                                                    | kV              | 6                    |
| Rated Operational Current $I_e$                          |                                                                                     |                    |                                                    |                 |                      |
| AC-21A                                                   | Switching of resistive loads, including moderate overloads                          |                    |                                                    | A               | 150                  |
| AC-22A                                                   | Switching of combined resistive or low inductive loads including moderate overloads |                    | 220 V–500 V<br>660 V–690 V                         | A               | 150<br>125           |
| Rated Utilization Category                               |                                                                                     |                    |                                                    |                 |                      |
| AC-2                                                     | Slip ring motor starting, reversing and plugging, star-delta starting               | 3 phase,<br>3 pole | 220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V | kW              | 37<br>55<br>75<br>55 |
| AC-3                                                     | Direct-on-line starting, star-delta starting                                        | 3 phase,<br>3 pole | 220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V | kW              | 22<br>37<br>37<br>30 |
|                                                          |                                                                                     | 1 phase,<br>2 pole | 110 V–120 V<br>220 V–240 V<br>380 V–440 V          | kW              | 5,5<br>11<br>18,5    |
| AC-4                                                     | Direct-on-line starting, reversing, plugging and inching                            | 3 phase,<br>3 pole | 220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V | kW              | 10<br>15<br>15<br>15 |
|                                                          |                                                                                     | 1 phase,<br>2 pole | 110 V–120 V<br>220 V–240 V<br>380 V–440 V          | kW              | 2,2<br>4<br>7,5      |
| 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              | 37<br>75<br>90<br>55 |
|                                                          |                                                                                     | 1 phase,<br>2 pole | 110 V–120 V<br>220 V–240 V<br>380 V–440 V          | kW              | 11<br>22<br>37       |
| Short Circuit Protection                                 |                                                                                     |                    |                                                    |                 |                      |
| Max. fuse size                                           |                                                                                     | gG-characteristic  |                                                    | A               | 200                  |
| Rated short-time withstand current                       |                                                                                     | (1 s-current)      |                                                    | A               | 2000                 |
| Max. Permissible Wire Gage - copper wires only           |                                                                                     |                    |                                                    |                 |                      |
| Single-core or stranded wire                             |                                                                                     |                    |                                                    | mm <sup>2</sup> | 70                   |
| Flexible wire                                            |                                                                                     |                    |                                                    | mm <sup>2</sup> | 50                   |
| Flexible wire with sleeving in accordance with DIN 46228 |                                                                                     |                    |                                                    | mm <sup>2</sup> | 50                   |

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

## Miscellaneous

|                                   |                                                                                |                                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Minimum Voltage:                  | on request                                                                     |                                                                                              |
| Power loss per contact at $I_U$ : | 3,8 W                                                                          |                                                                                              |
| Resistance to vibration:          | on request                                                                     |                                                                                              |
| Resistance to shock:              | min. 5 g, 30 ms                                                                |                                                                                              |
| Ambient Temperature of Stages :   | open at 100 % $I_U/I_{th}$<br>enclosed at 100 % $I_{the}$                      | 55 °C during 24 hours with peaks up to 60 °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  
EN 60947

c UL US

SAB

CCC  
GB14048.3PG  
CH01

## USA / Canada



| Rated Thermal Current $I_U/I_{th}/I_{the}$     |                                                        |                   |               |     |     |
|------------------------------------------------|--------------------------------------------------------|-------------------|---------------|-----|-----|
|                                                |                                                        |                   |               | A   | 150 |
| Rated Insulation Voltage $U_i$                 |                                                        |                   |               |     |     |
|                                                |                                                        |                   |               | V   | 600 |
| Rated Operational Current $I_e$                |                                                        |                   |               |     |     |
| Ampere Rating                                  | Resistive or low inductive loads                       |                   |               | A   | 150 |
| Max. Permissible Wire Gage - copper wires only |                                                        |                   |               |     |     |
|                                                | Single-core or stranded wire                           |                   |               | AWG | 2/0 |
|                                                | Flexible wire: AWG wire (without sleeving)             |                   |               | AWG | 1/0 |
| Ratings                                        |                                                        |                   |               |     |     |
|                                                | Standard motor load,<br>DOL - Rating<br>(similar AC-3) | 3 phase<br>3 pole | 110 V – 120 V | HP  | 15  |
|                                                |                                                        |                   | 220 V – 240 V |     | 25  |
|                                                |                                                        |                   | 440 V – 480 V |     | 40  |
|                                                |                                                        |                   | 550 V – 600 V |     | 50  |
|                                                |                                                        | 1 phase<br>2 pole | 110 V – 120 V | HP  | 7,5 |
|                                                |                                                        |                   | 220 V – 240 V |     | 15  |
|                                                |                                                        |                   | 277 V         |     | 15  |
|                                                |                                                        |                   | 440 V – 480 V |     | 25  |
|                                                | Heavy motor<br>Load-reversing<br>(similar AC-4)        | 3 phase<br>3 pole | 110 V – 120 V | HP  | 10  |
|                                                |                                                        |                   | 220 V – 240 V |     | 20  |
|                                                |                                                        |                   | 440 V – 600 V |     | 30  |
|                                                |                                                        |                   |               |     |     |
|                                                |                                                        | 1 phase<br>2 pole | 110 V – 120 V | HP  | 5   |
|                                                |                                                        |                   | 220 V – 240 V |     | 10  |
|                                                |                                                        |                   | 277 V         |     | 10  |

## Miscellaneous

|                                   |                                                                                |                                              |
|-----------------------------------|--------------------------------------------------------------------------------|----------------------------------------------|
| Minimum Voltage:                  | on request                                                                     |                                              |
| Power loss per contact at $I_U$ : | 3,8 W                                                                          |                                              |
| Resistance to vibration:          | on request                                                                     |                                              |
| Resistance to shock:              | min. 5 g, 30 ms                                                                |                                              |
| Ambient Temperature of Stages :   | open at 100 % $I_U/I_{th}$                                                     | 55 °C during 24 hours with peaks up to 60 °C |
|                                   | enclosed at 100 % $I_{the}$                                                    | 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