

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



| Rated Thermal Current $I_U/I_{th}/I_{the}$     |                                                                                     |                           |                                                    |                 |                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|-----------------|------------------------|
|                                                |                                                                                     |                           |                                                    | A               | 315                    |
| Rated Insulation Voltage $U_i$ <sup>1</sup>    |                                                                                     |                           |                                                    |                 |                        |
|                                                |                                                                                     |                           |                                                    | V               | 1000                   |
| Rated Impulse Withstand Voltage $U_{imp}$      |                                                                                     |                           |                                                    |                 |                        |
|                                                |                                                                                     |                           |                                                    | kV              | 8                      |
| Rated Operational Current $I_e$                |                                                                                     |                           |                                                    |                 |                        |
| AC-21A                                         | Switching of resistive loads, including moderate overloads                          |                           |                                                    | A               | 315                    |
| AC-22A                                         | Switching of combined resistive or low inductive loads including moderate overloads |                           | 220 V–500 V<br>660 V–690 V                         | A               | 315<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              | 55<br>90<br>110<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              | 37<br>55<br>55<br>37   |
|                                                |                                                                                     | 1 phase,<br>2 pole        | 110 V–120 V<br>220 V–240 V<br>380 V–440 V          | kW              | 11<br>22<br>30         |
| 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              | 15<br>25<br>25<br>22   |
|                                                |                                                                                     | 1 phase,<br>2 pole        | 110 V–120 V<br>220 V–240 V<br>380 V–440 V          | kW              | 4<br>7,5<br>11         |
| 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              | 75<br>132<br>132<br>37 |
|                                                |                                                                                     | 1 phase,<br>2 pole        | 110 V–120 V<br>220 V–240 V<br>380 V–440 V          | kW              | 18,5<br>37<br>55       |
| Short Circuit Protection                       |                                                                                     |                           |                                                    |                 |                        |
| Max. fuse size                                 |                                                                                     | gG-characteristic         |                                                    | A               | 315                    |
| Rated short-time withstand current             |                                                                                     | (1 s-current)             |                                                    | A               | 4200                   |
| Max. Permissible Wire Gage - copper wires only |                                                                                     |                           |                                                    |                 |                        |
|                                                | Single-core or stranded wire                                                        | Cable lug must accept M12 |                                                    | mm <sup>2</sup> | 185                    |
|                                                | Flexible wire                                                                       | Cable lug must accept M12 |                                                    | mm <sup>2</sup> | 150                    |

<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 $I_U$ : | 17 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 % $I_{the}$                                                    | up to 4 pole | 35 °C during 24 hours with peaks up to 40 °C |
|                                   | enclosed at 87 % $I_{the}$                                                     | from 5 pole  | 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 60947C<sub>UL</sub> US

SE

CCC  
GB14048.3PG  
CH01

## USA / Canada



| Rated Thermal Current $I_U/I_{th}/I_{the}$           |                                            |  |               |     |      |
|------------------------------------------------------|--------------------------------------------|--|---------------|-----|------|
|                                                      |                                            |  |               | A   | 240  |
| Rated Insulation Voltage $U_i$                       |                                            |  |               |     |      |
|                                                      |                                            |  |               | V   | 600  |
| Rated Operational Current $I_e$                      |                                            |  |               |     |      |
| Pilot Duty:                                          |                                            |  | Heavy         | VAC | A600 |
| Ampere Rating                                        | Resistive or low inductive loads           |  |               | A   | 240  |
| Max. Permissible Wire Gage - copper wires only       |                                            |  |               |     |      |
|                                                      | Single-core or stranded wire               |  |               | MCM | 350  |
|                                                      | Flexible wire: AWG wire (without sleeving) |  |               | MCM | 300  |
| Ratings                                              |                                            |  |               |     |      |
| Standard motor load,<br>DOL-Rating<br>(similar AC-3) | 3 phase<br>3 pole                          |  | 110 V – 120 V | HP  | 30   |
|                                                      |                                            |  | 220 V – 240 V |     | 75   |
|                                                      |                                            |  | 440 V – 480 V |     | 75   |
|                                                      |                                            |  | 550 V – 600 V |     | 60   |
|                                                      | 1 phase<br>2 pole                          |  | 110 V – 120 V | HP  | 15   |
|                                                      |                                            |  | 220 V – 240 V |     | 40   |
|                                                      |                                            |  | 277 V         |     | 40   |
|                                                      |                                            |  | 440 V – 480 V |     | 50   |
| Heavy motor<br>Load-reversing<br>(similar AC-4)      | 3 phase<br>3 pole                          |  | 110 V – 120 V | HP  | 15   |
|                                                      |                                            |  | 220 V – 240 V |     | 30   |
|                                                      |                                            |  | 440 V – 600 V |     | 40   |
|                                                      |                                            |  |               |     |      |
|                                                      | 1 phase<br>2 pole                          |  | 110 V – 120 V | HP  | 7,5  |
|                                                      |                                            |  | 220 V – 240 V |     | 15   |
|                                                      |                                            |  | 277 V         |     | 15   |

## Miscellaneous

|                                   |                                                                                |              |  |  |                                              |
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| Power loss per contact at $I_U$ : | 17 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 % $I_{the}$                                                    | up to 4 pole |  |  | 35 °C during 24 hours with peaks up to 40 °C |
|                                   | enclosed at 87 % $I_{the}$                                                     | from 5 pole  |  |  | 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) |              |  |  |                                              |

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