

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



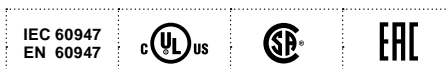
| Rated Thermal Current I _U /I _{th} /I _{the} | | | | A | 20 |
|---|---|-------------------|--|-----------------|---------------------------|
| Rated Insulation Voltage U _I ¹ | | | | V | 690 |
| Rated Impulse Withstand Voltage U _I mp | | | | kV | 6 |
| Rated Operational Current I _e | | | | | |
| 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–440 V 500 V–500 V 660 V–690 V | A | 20 20 16 |
| AC-15 | Switching of control devices, contactors, valves etc. | | 110 V 220 V–240 V 380 V–440 V | A | 6 5 4 |
| Rated Utilization Category | | | | | |
| AC-2 | Slip ring motor starting, reversing and plugging, star-delta starting | 3 phase, 3 pole | 220 V–240 V 380 V–440 V 500 V–500 V 660 V–690 V | kW | 4 7,5 10 10 |
| AC-3 | Direct-on-line starting, star-delta starting | 3 phase, 3 pole | 220 V–240 V 380 V–440 V 500 V–500 V 660 V–690 V | kW | 3 5,5 5,5 5,5 |
| | | 1 phase, 2 pole | 110 V–120 V 220 V–240 V 380 V–440 V | kW | 0,6 2,2 3 |
| AC-4 | Direct-on-line starting, reversing, plugging and inching | 3 phase, 3 pole | 220 V–240 V 380 V–440 V 500 V–500 V 660 V–690 V | kW | 0,55 1,5 1,5 1,5 |
| | | 1 phase, 2 pole | 110 V–120 V 220 V–240 V 380 V–440 V | kW | 0,3 0,75 1,5 |
| AC-23A | Frequent switching of motors or other high inductive loads | 3 phase, 3 pole | 220 V–240 V 380 V–440 V 500 V–500 V 660 V–690 V | kW | 3,7 7,5 7,5 7,5 |
| | | 1 phase, 2 pole | 110 V–120 V 220 V–240 V 380 V–440 V | kW | 0,75 2,5 3,7 |
| Short Circuit Protection | | | | | |
| Max. fuse size | | gG-characteristic | | A | 25 |
| Rated short-time withstand current | | (1 s-current) | | A | 140 |
| Max. Permissible Wire Gage - copper wires only | | | | | |
| Single-core or stranded wire | | | | mm ² | 2,5 |
| Flexible wire | | | | mm ² | 2,5 |
| Flexible wire with sleeving in accordance with DIN 46228 | | | | mm ² | 2,5 |

¹ 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 : | 0,8 W | |
| Resistance to vibration: | on request | |
| Resistance to shock: | min. 5 g, 30 ms | |
| Min. Ambient Temperature of Stages: | -5 °C | |
| Max. Max. 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



USA / Canada



| | | | | | |
|---|--|-------------------|---|-----|--------------------------|
| Rated Thermal Current I _U /I _{th} /I _{the} | | | | A | 16 |
| Rated Insulation Voltage U _i ¹ | | | | V | 300 |
| Rated Operational Current I _e ¹ | | | | | |
| Pilot Duty | | | Heavy | VAC | A300 |
| Ampere Rating | Resistive or low inductive loads | | | A | 16 (150 V) 10 (300 V) |
| Max. Permissible Wire Gage - copper wires only | | | | | 2 x |
| Single-core or stranded wire | | | | AWG | 12 |
| Flexible wire: AWG wire (without sleeving) | | | | AWG | 14 |
| Ratings | | | | | |
| | Standard motor load, DOL - Rating (similar AC-3) | 3 phase 3 pole | 110 V – 120 V 220 V – 240 V | HP | 0,75 1 |
| | | 1 phase 2 pole | 110 V – 120 V 220 V – 240 V 277 V | HP | 0,5 1 1 |
| | Heavy motor Load-reversing (similar AC-4) | 3 phase 3 pole | 110 V – 120 V 220 V – 240 V | HP | 0,5 1 |
| | | 1 phase 2 pole | 110 V – 120 V 220 V – 240 V 277 V | HP | 0,17 0,5 0,5 |

Miscellaneous

| | | |
|--|--|--|
| Tightening torque of terminal screw: | 0,8 Nm (7 lb-in) | |
| Minimum Voltage: | on request | |
| Power loss per contact at I_U : | 0,8 W | |
| Resistance to vibration: | on request | |
| Resistance to shock: | min. 5 g, 30 ms | |
| Min. Ambient Temperature of Stages: | -5 °C | |
| Max. Max. 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