

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_{imp} | | | | |
| | | | 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 | | A | 20 16 20 |
| | | 220 V–440 V 500 V 660 V–690 V | | |
| AC-15 | Switching of control devices, contactors, valves etc. | | A | 5 5 4 |
| | | 110 V 220 V–240 V 380 V–440 V | | |
| Rated Utilization Category | | | | |
| AC-2 | Slip ring motor starting, reversing and plugging, star-delta starting | 3 phase, 3 pole | | 4 7,5 10 10 |
| | | | kW | |
| | | 220 V–240 V 380 V–440 V 500 V 660 V–690 V | | |
| AC-3 | Direct-on-line starting, star-delta starting | 3 phase, 3 pole | | 3 5,5 5,5 5,5 |
| | | | kW | |
| | | 220 V–240 V 380 V–440 V 500 V 660 V–690 V | | |
| | | 1 phase, 2 pole | | 0,6 2,2 3 3 3 |
| | | | kW | |
| | | 110 V–120 V 220 V–240 V 380 V–440 V 500 V 660 V–690 V | | |
| AC-4 | Direct-on-line starting, reversing, plugging and inching | 3 phase, 3 pole | | 0,55 1,5 1,5 1,5 |
| | | | kW | |
| | | 220 V–240 V 380 V–440 V 500 V 660 V–690 V | | |
| | | 1 phase, 2 pole | | 0,3 0,75 1,5 |
| | | | kW | |
| | | 110 V–120 V 220 V–240 V 380 V–440 V 500 V 660 V–690 V | | |
| AC-23A | Frequent switching of motors or other high inductive loads | 3 phase, 3 pole | | 3,7 7,5 7,5 7,5 |
| | | | kW | |
| | | 220 V–240 V 380 V–440 V 500 V 660 V–690 V | | |
| | | 1 phase, 2 pole | | 0,75 2,5 3,7 4 4 |
| | | | kW | |
| | | 110 V–120 V 220 V–240 V 380 V–440 V 500 V 660 V–690 V | | |
| Short Circuit Protection | | | | |
| Max. fuse size | gG-characteristic | | A | 25 |
| Rated short-time withstand current | (1 s-current) | | A | 250 |
| For connections with insulated ring and fork type cable terminal - copper wires only | | | | |
| Inner diameter | | | mm | $\geq 3,6$ mm |
| Outside diameter | | | mm | $\leq 8,6$ mm |
| Quick connect | | | mm | 6,3 |

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

Miscellaneous

| | |
|--------------------------------------|---|
| Tightening torque of terminal screw: | 1,4 Nm (12 lb-in) |
| Minimum Voltage: | on request |
| Power loss per contact at I_U : | 1,4 W |
| Resistance to vibration: | on request |
| Resistance to shock: | min. 5 g, 30 ms |
| Min. Ambient Temperature of Stages: | -5 °C |
| 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 | 20 |
| 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 | 20 |
| Max. Permissible Wire Gage - copper wires only | | | |
| | Inner diameter | mm | $\geq 3,6$ |
| | Outside diameter | mm | $\leq 8,6$ |
| | Quick connect | mm | 6,3 |
| Ratings | | | |
| Standard motor load, DOL-Rating (similar AC-3) | 3 phase 3 pole | 110 V – 120 V 220 V – 240 V 440 V – 480 V 550 V – 600 V | HP 1,5 3 5 5 |
| | 1 phase 2 pole | 110 V – 120 V 220 V – 240 V 277 V 440 V – 480 V 550 V – 600 V | HP 0,5 1 2 2 2 |
| | 3 phase 3 pole | 110 V – 120 V 220 V – 240 V 440 V – 600 V | HP 0,5 1 3 |
| Heavy motor Load-reversing (similar AC-4) | 1 phase 2 pole | 110 V – 120 V 220 V – 240 V 277 V 440 V – 600 V | HP 0,17 0,5 0,6 1,5 |

Miscellaneous

| | |
|--------------------------------------|---|
| Tightening torque of terminal screw: | 1,4 Nm (12 lb-in) |
| Minimum Voltage: | on request |
| Power loss per contact at I_U : | 1,4 W |
| Resistance to vibration: | on request |
| Resistance to shock: | min. 5 g, 30 ms |
| Min. Ambient Temperature of Stages: | -5 °C |
| 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

