



Reference: 3RT1025-3BB40

CONTACTOR, AC-3 7.5 KW/400 V, DC 24 V, 3-POLE, SIZE S0, CAGE CLAMP CONNECTION

Buy it at Electric Automation Network



| product designation power contactor General technical data: Size of contactor 50 Degree of pollution 3 Protection class IP on the front IP20 of the terminal IP20 Mechanical service life (switching cycles) of contactor typical 10 000 000 of the contactor with atd> 5 000 000 of the contactor with atd> 10 000 000 Ambient conditions: Installation altitude at height above sea level maximum 2 000 m Ambient temperature during operation -25 +60 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0 Operating current | | | |
|--|---|-----------------|--|
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| Size of contactor Degree of pollution 3 Protection class IP on the front IP20 Of the terminal Mechanical service life (switching cycles) of contactor typical of the contactor with atd> 5 000 000 of the contactor with atd> 10 000 000 Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature during operation -25 +60 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts Operating current | Product designation | power contactor | |
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| Protection class IP on the front of the terminal Mechanical service life (switching cycles) of contactor typical of the contactor with atd> of the contactor with atd> for the contacto | Size of contactor | 50 | |
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| Ambient conditions: Installation altitude at height above sea level maximum 2 000 m Ambient temperature during operation -25 +60 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0 Operating current | of the contactor with atd> | 5 000 000 | |
| Installation altitude at height above sea level maximum 2 000 m Ambient temperature during operation -25 +60 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0 Operating current | of the contactor with atd> | 10 000 000 | |
| Ambient temperature during operation -25 +60 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0 Operating current | Ambient conditions: | | |
| during operation -25 +60 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0 Operating current | Installation altitude at height above sea level maximum | 2 000 m | |
| Main circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current | Ambient temperature | | |
| Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0 Operating current | during operation | -25 +60 °C | |
| Number of NC contacts for main contacts 0 Operating current | Main circuit: | | |
| Operating current | Number of NO contacts for main contacts | 3 | |
| | Number of NC contacts for main contacts | 0 | |
| | Operating current | | |
| at AC-1 at 400 V | at AC-1 at 400 V | | |

| — at ambient temperature 40 °C rated value | 40 A |
|--|--------|
| at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 40 A |
| — up to 690 V at ambient temperature 60 °C rated value | 35 A |
| at AC-3 | |
| — at 400 V rated value | 17 A |
| Operating current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 4.5 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| Operating current | |
| at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 2.5 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 110 V rated value | 15 A |
| — at 24 V rated value | 35 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 110 V rated value | 35 A |
| — at 24 V rated value | 35 A |
| Operating power | |
| at AC-1 | |
| — at 400 V rated value | 23 kW |
| at AC-2 at 400 V rated value | 7.5 kW |
| at AC-3 | |
| — at 400 V rated value | 7.5 kW |
| — at 500 V rated value | 10 kW |
| — at 690 V rated value | 11 kW |
| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | 0.9 W |
| Control circuit/ Control: | |

| Type of voltage of the control supply voltage | DC |
|--|--|
| Control supply voltage at DC | |
| rated value | 24 V |
| Operating range factor control supply voltage rated value of magnet coil at DC | 0.8 1.1 |
| Closing power of magnet coil at DC | 5.4 W |
| Holding power of magnet coil at DC | 5.4 W |
| Auxiliary circuit: | |
| Number of NC contacts | |
| for auxiliary contacts | |
| — instantaneous contact | 0 |
| Number of NO contacts | |
| for auxiliary contacts | |
| — instantaneous contact | 0 |
| Operating current at AC-12 maximum | 10 A |
| Operating current at AC-15 | |
| at 230 V rated value | 6 A |
| at 400 V rated value | 3 A |
| Operating current at DC-12 | |
| at 60 V rated value | 6 A |
| at 110 V rated value | 3 A |
| at 220 V rated value | 1 A |
| Operating current at DC-13 | |
| at 24 V rated value | 10 A |
| at 60 V rated value | 2 A |
| at 110 V rated value | 1 A |
| at 220 V rated value | 0.3 A |
| Contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| Short-circuit protection | |
| Design of the fuse link | |
| for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | fuse gL/gG: 63 A |
| — with type of assignment 2 required | fuse gL/gG: 25 A |
| for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |
| Installation/ mounting/ dimensions: | |
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| Side-by-side mounting | Yes |

| Height | 85 mm |
|---|--|
| Witd> | 45 mm |
| Depth | 100 mm |
| Required spacing | |
| for grounded parts | |
| — at the side | 6 mm |
| Connections/Terminals: | |
| Type of electrical connection | |
| for main current circuit | screw-type terminals |
| for auxiliary and control current circuit | spring-loaded terminals |
| Type of connectable conductor cross-sections | |
| for main contacts | |
| — solid | 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 2x 10 mm² |
| — single or multi-stranded | 2x (1 2,5 mm²), 2x (2,5 6 mm²), max. 2x 10 mm² |
| — finely stranded with core end processing | 2x (1 2.5 mm²), 2x (2.5 6 mm²) |
| at AWG conductors for main contacts | 2x (16 12), 2x (14 10), 1x 8 |
| Type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid | 2x (0.25 2.5 mm²) |
| — finely stranded with core end processing | 2x (0.25 1.5 mm²) |
| — finely stranded without core end processing | 2x (0.25 2.5 mm²) |
| at AWG conductors for auxiliary contacts | 2x (24 14) |