

Reference: 3RT1023-1AF04

CONTACTOR, AC-3 4KW/400V, AC 110V,
50HZ, 3-POLE, SIZE S0, SCREW
CONNECTION WITH 2NO+2NC

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| | |
|---|-----------------|
| product brand name | SIRIUS |
| Product designation | power contactor |
| General technical data: | |
| Size of contactor | S0 |
| 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 | |
| at AC-1 at 400 V | |

| | |
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| — 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 | 9 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 | 4 kW |
| at AC-3 | |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 4.5 kW |
| — at 690 V rated value | 5.5 kW |
| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | 0.4 W |
| Control circuit/ Control: | |

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| Type of voltage of the control supply voltage | AC |
| Control supply voltage at AC | |
| at 50 Hz rated value | 110 V |
| Control supply voltage frequency 1 rated value | 50 Hz |
| Operating range factor control supply voltage rated value of magnet coil at AC | |
| at 50 Hz | 0.8 ... 1.1 |
| Apparent pick-up power of magnet coil at AC | 61 V·A |
| Inductive power factor with closing power of the coil | 0.82 |
| Apparent holding power of magnet coil at AC | 7.8 V·A |
| Inductive power factor with the holding power of the coil | 0.24 |
| Auxiliary circuit: | |
| Number of NC contacts | |
| for auxiliary contacts | |
| — instantaneous contact | 2 |
| Number of NO contacts | |
| for auxiliary contacts | |
| — instantaneous contact | 2 |
| 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: | |
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| 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 |
| Width | 45 mm |
| Depth | 140 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 | screw-type terminals |
| Type of connectable conductor cross-sections | |
| for main contacts | |
| — solid | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²), max. 2x 10 mm ² |
| — single or multi-stranded | 2x (1 ... 2,5 mm ²), 2x (2,5 ... 6 mm ²), max. 2x 10 mm ² |
| — finely stranded with core end processing | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| 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 (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²) |
| — finely stranded with core end processing | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| at AWG conductors for auxiliary contacts | 2x (20 ... 16), 2x (18 ... 14), 1x 12 |