

Reference: 3RU2136-4QB0

OVERLOAD RELAY 47...57 A FOR MOTOR PROTECTION SIZE S2, CLASS 10 FOR MOUNTING ONTO CONTACTORS MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET.

Buy it at Electric Automation Network



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| product brand name | SIRIUS |
| Product designation | 3RU2 thermal overload relay |
| General technical data: | |
| Size of overload relay | S2 |
| Size of contactor can be combined company-specific | S2 |
| Power loss [W] total typical | 11 W |
| Insulation voltage with degree of pollution 3 rated value | 690 V |
| Surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for safe isolation | |
| in networks with grounded star point between auxiliary and auxiliary circuit | 415 V |
| in networks with grounded star point between auxiliary and auxiliary circuit | 415 V |
| in networks with grounded star point between main and auxiliary circuit | 690 V |
| in networks with grounded star point between main and auxiliary circuit | 690 V |
| Protection class IP | |
| on the front | IP20 |
| of the terminal | IP00 |
| Shock resistance | |
| acc. to IEC 60068-2-27 | 8g / 11 ms |

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| Recovery time | |
| after overload trip with automatic reset typical | 10 min |
| after overload trip with remote-reset | 10 min |
| after overload trip with manual reset | 10 min |
| Type of protection | Ex e |
| Certificate of suitability relating to ATEX | DMT 98 ATEX G 001 |
| Protection against electrical shock | finger-safe when touched vertically from front acc. to IEC 60529 |
| Equipment marking acc. to DIN EN 81346-2 | F |
| Ambient conditions: | |
| Installation altitude at height above sea level maximum | 2 000 m |
| Ambient temperature | |
| during operation | -40 ... +70 °C |
| during storage | -55 ... +80 °C |
| during transport | -55 ... +80 °C |
| Temperature compensation | -40 ... +60 °C |
| Main circuit: | |
| Number of poles for main current circuit | 3 |
| Adjustable pick-up value current of the current-dependent overload release | 47 ... 57 A |
| Operating voltage | |
| rated value | 690 V |
| at AC-3 rated value maximum | 690 V |
| Operating frequency rated value | 50 ... 60 Hz |
| Operating current rated value | 57 A |
| Auxiliary circuit: | |
| Design of the auxiliary switch | integrated |
| Number of NC contacts | |
| for auxiliary contacts | 1 |
| — Note | for contactor disconnection |
| Number of NO contacts | |
| for auxiliary contacts | 1 |
| — Note | for message "Tripped" |
| Number of CO contacts | |
| for auxiliary contacts | 0 |
| Operating current of auxiliary contacts at AC-15 | |
| at 24 V | 3 A |
| at 110 V | 3 A |
| at 120 V | 3 A |

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| at 125 V | 3 A |
| at 230 V | 2 A |
| at 400 V | 1 A |
| Operating current of auxiliary contacts at DC-13 | |
| at 24 V | 2 A |
| at 110 V | 0.22 A |
| at 125 V | 0.22 A |
| at 220 V | 0.11 A |
| Design of the miniature circuit breaker | |
| for short-circuit protection of the auxiliary switch required | 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) |
| Protective and monitoring functions: | |
| Trip class | CLASS 10 |
| Design of the overload release | thermal |
| UL/CSA ratings: | |
| Full-load current (FLA) for three-phase AC motor | |
| at 480 V rated value | 57 A |
| at 600 V rated value | 57 A |
| Contact rating of auxiliary contacts according to UL | B600 / R300 |
| Short-circuit protection | |
| Design of the fuse link | |
| for short-circuit protection of the auxiliary switch required | fuse gG: 6 A, quick: 10 A |
| Installation/ mounting/ dimensions: | |
| Mounting position | any |
| Mounting type | direct mounting |
| Height | 90 mm |
| Witd> | 55 mm |
| Depth | 105 mm |
| Required spacing | |
| with side-by-side mounting | |
| — forwards | 10 mm |
| — Backwards | 0 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| for grounded parts | |
| — forwards | 10 mm |
| — Backwards | 0 mm |

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| — upwards | 10 mm |
| — at the side | 10 mm |
| — downwards | 10 mm |
| for live parts | |
| — forwards | 10 mm |
| — Backwards | 0 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| Connections/Terminals: | |
| Product function | |
| removable terminal for auxiliary and control circuit | No |
| Type of electrical connection | |
| for main current circuit | screw-type terminals |
| for auxiliary and control current circuit | screw-type terminals |
| Arrangement of electrical connectors for main current circuit | Top and bottom |
| Type of connectable conductor cross-sections | |
| for main contacts | |
| — single or multi-stranded | 2x (1 ... 35 mm ²), 1x (1 ... 50 mm ²) |
| — finely stranded with core end processing | 2x (1 ... 25 mm ²), 1x (1 ... 35 mm ²) |
| at AWG conductors for main contacts | 2x (18 ... 2), 1x (18 ... 1) |
| Type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — single or multi-stranded | 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 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) |
| Tightening torque | |
| for main contacts with screw-type terminals | 3 ... 4.5 N·m |
| for auxiliary contacts with screw-type terminals | 0.8 ... 1.2 N·m |
| Design of screwdriver shaft | 5 ... 6 mm diameter |
| Design of the thread of the connection screw | |
| for main contacts | M6 |
| of the auxiliary and control contacts | M3 |
| Safety related data: | |
| T1 value for proof test interval or service life acc. to IEC 61508 | 20 y |
| Display: | |
| Display version | |

for switching status

Slide switch