SIEMENS

Product data sheet 3RT2017-1AG61



CONTACTOR, AC-3, 5.5KW/400V, 1NO, AC 100V 50HZ, 100...110V 60HZ 3-POLE, SZ S00 SCREW TERMINAL

| General technical data: | | | | |
|--|----|----------------------------|--|--|
| product brand name | | SIRIUS | | |
| Size of the contactor | | S00 | | |
| Product extension / auxiliary switch | | Yes | | |
| Product extension / function module for communication | | No | | |
| Protection class IP / on the front | | IP20 | | |
| Protection against electrical shock | | finger-safe | | |
| Degree of pollution | | 3 | | |
| Installation altitude / at a height over sea level / maximum | m | 2,000 | | |
| Ambient temperature | | | | |
| during storage | °C | -55 +80 | | |
| during operating | °C | -25 +60 | | |
| Shock resistance | | | | |
| at rectangular impulse | | | | |
| • at AC | | 7,3g / 5 ms, 4,7g / 10 ms | | |
| at sine pulse | | | | |
| • at AC | | 11,4g / 5 ms, 7,3g / 10 ms | | |
| Impulse voltage resistance / rated value | kV | 6 | | |
| Insulation voltage / rated value | V | 690 | | |

| Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1 | V | 400 |
|--|---|------------|
| Mechanical operating cycles as operating time | | |
| of the contactor / typical | | 30,000,000 |
| • of the contactor with added auxiliary switch block / typical | | 10,000,000 |
| of the contactor with added electronics-compatible auxiliary switch block / typical | | 5,000,000 |

| Main circuit: | | |
|---|----|-----|
| Number of NC contacts / for main contacts | | 0 |
| Number of NO contacts / for main contacts | | 3 |
| Operating current / at AC-1 / at 400 V | | |
| • at 40 °C ambient temperature / rated value | Α | 22 |
| • at 60 °C ambient temperature / rated value | А | 20 |
| Connectable conductor cross-section / in main circuit | | |
| • at AC-1 | | |
| • at 40 °C / minimum permissible | m² | 4 |
| • at 60 °C / minimum permissible | m² | 2.5 |
| Operational current | | |
| • at AC-2 / at 400 V / rated value | Α | 12 |
| • at AC-3 | | |
| • at 400 V / rated value | Α | 12 |
| • at 500 V / rated value | Α | 9.2 |
| • at 690 V / rated value | Α | 6.7 |
| • at AC-4 / at 400 V / rated value | Α | 8.5 |
| Operational current | | |
| • with 1 current path / at DC-1 | | |
| • at 24 V / rated value | Α | 20 |
| • at 110 V / rated value | Α | 2.1 |
| • at 220 V / rated value | Α | 0.8 |
| • at 440 V / rated value | Α | 0.6 |
| • at 600 V / rated value | Α | 0.6 |
| • with 2 current paths in series / at DC-1 | | |
| • at 24 V / rated value | Α | 20 |
| • at 110 V / rated value | Α | 12 |
| • at 220 V / rated value | Α | 1.6 |
| • at 440 V / rated value | Α | 0.8 |
| • at 600 V / rated value | Α | 0.7 |
| • with 3 current paths in series / at DC-1 | | |
| • at 24 V / rated value | Α | 20 |
| • at 110 V / rated value | Α | 20 |
| | | |

| • at 220 V / rated value | Α | 20 |
|---|-----|--------|
| • at 440 V / rated value | Α | 1.3 |
| • at 600 V / rated value | Α | 1 |
| Operational current | | |
| with 1 current path / at DC-3 / at DC-5 | | |
| • at 24 V / rated value | Α | 20 |
| • at 110 V / rated value | Α | 0.1 |
| • with 2 current paths in series / at DC-3 / at DC-5 | | |
| • at 24 V / rated value | Α | 20 |
| • at 110 V / rated value | Α | 0.35 |
| • with 3 current paths in series / at DC-3 / at DC-5 | | |
| • at 24 V / rated value | Α | 20 |
| • at 110 V / rated value | Α | 20 |
| • at 220 V / rated value | Α | 1.5 |
| • at 440 V / rated value | Α | 0.2 |
| • at 600 V / rated value | Α | 0.2 |
| Service power | | |
| • at AC-1 | | |
| • at 230 V / rated value | kW | 7.5 |
| • at 400 V / rated value | kW | 13 |
| • at 500 V / rated value | kW | 17 |
| • at 690 V / rated value | kW | 22 |
| • at AC-2 / at 400 V / rated value | kW | 5.5 |
| • at AC-3 | | |
| • at 230 V / rated value | kW | 3 |
| • at 400 V / rated value | kW | 5.5 |
| • at 690 V / rated value | kW | 5.5 |
| • at AC-4 / at 400 V / rated value | kW | 4 |
| Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor | W | 1.2 |
| Off-load operating frequency | | |
| • at AC | 1/h | 10,000 |
| • at DC | 1/h | 10,000 |
| Frequency of operation | | |
| • at AC-1 / according to IEC 60947-6-2 | 1/h | 1,000 |
| • at AC-2 / according to IEC 60947-6-2 | 1/h | 750 |
| • at AC-3 / according to IEC 60947-6-2 | 1/h | 750 |
| at 7 to 0 7 according to 120 ccc 11 o 2 | | |

Control circuit

| Type of voltage / of the controlled supply voltage | | AC |
|--|-----|---|
| Control supply voltage | | |
| • at 50 Hz / at AC / rated value | V | 100 |
| • at 60 Hz / at AC / rated value | V | 110 |
| operating range factor control supply voltage rated value / of the magnet coil | | |
| • at 50 Hz / for AC | | 0.8 1.1 |
| • at 60 Hz / for AC | | 0.85 1.1 |
| Apparent pull-in power / of the solenoid / for AC | V-A | 43 |
| Apparent holding power / of the solenoid / for AC | V-A | 6.5 |
| Inductive power factor | | |
| with the pull-in power of the coil | | 0.8 |
| with the pull-in power of the coil | | 0.25 |
| Closing delay | | |
| • at AC | ms | 8 33 |
| Opening delay | | |
| • at AC | ms | 4 15 |
| Arcing time | ms | 10 15 |
| Residual current / of electronics / for control with signal <0> | | |
| • at 230 V / with AC / maximum permissible | mA | 4 |
| • at 24 V / with DC / maximum permissible | mA | 10 |
| Auxiliary circuit: | | |
| Contact reliability / of the auxiliary contacts | | 1 faulty switching per 100 million (17 V, 1 mA) |
| Number of NC contacts / for auxiliary contacts / instantaneous switching | | 0 |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 1 |
| Operating current / of the auxiliary contacts | | |
| • [nicht versorgt: PMD_ABP551_001_000] | | |
| • | Α | 2 |
| • at 690 V | А | 1 |
| UL/CSA ratings: | | |

| UL/CSA ratings: | | |
|---|----|-----|
| yielded mechanical performance (hp) | | |
| for single-phase squirrel cage motors | | |
| • at 110/120 V / rated value | hp | 0.5 |
| at 230 V / rated value | hp | 2 |
| • for three-phase squirrel cage motors | | |
| • at 200/208 V / rated value | hp | 3 |
| • at 220/230 V / rated value | hp | 3 |

| • at 460/480 V / rated value | hp | 7.5 |
|---|----|-------------|
| • at 575/600 V / rated value | hp | 10 |
| Operating current (FLA) / for three-phase squirrel cage motors | | |
| • at 480 V / rated value | Α | 11 |
| • at 600 V / rated value | Α | 11 |
| Contact rating designation / for auxiliary contacts / according to UL | | A600 / Q600 |

| Short-circuit: | |
|---|--|
| Design of the fuse link | |
| • for short-circuit protection of the auxiliary switch / required | fuse gL/gG: 10 A |
| • for short-circuit protection of the main circuit | |
| with type of assignment 1 / required | gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A |
| • at type of coordination 2 / required | gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A |

| Installation/mounting/dimensions: | | | |
|---|----|--|--|
| mounting position | | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface | |
| Type of mounting | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 | |
| Type of fixing/fixation / series installation | | Yes | |
| Width | mm | 45 | |
| Height | mm | 57.5 | |
| Depth | mm | 73 | |
| Distance, to be maintained, to the ranks assembly / sidewards | mm | 0 | |

| Connections: | |
|---|---|
| Design of the electrical connection | |
| for main current circuit | screw-type terminals |
| for auxiliary and control current circuit | screw-type terminals |
| Type of the connectable conductor cross-section | |
| • for main contacts | |
| • solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| • finely stranded | |
| with conductor end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| • for AWG conductors / for main contacts | 2x (20 16), 2x (18 14), 2x 12 |
| for auxiliary contacts | |
| • solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| • finely stranded | |
| with conductor end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |

| Sicherheitsrelevante Kenngrößen: | | |
|--|-----|------------|
| B10 value / with high demand rate | | |
| according to SN 31920 | | 1,000,000 |
| T1 value / for proof test interval or service life | | |
| according to IEC 61508 | а | 20 |
| Proportion of dangerous failures | | |
| with low demand rate / according to SN 31920 | % | 40 |
| • with high demand rate / according to SN 31920 | % | 73 |
| Failure rate (FIT value) / with low demand rate | | |
| according to SN 31920 | FIT | 100 |
| Product function | | |
| • mirror contact to IEC 60947-4-1 | | Yes |
| • comment | | with 3RH29 |
| positively driven operation to IEC 60947-5-1 | | No |

Certificates/approvals:

General Product Approval

Functional Safety / Safety of Machinery

Declaration of Conformity









Type Examination



Test Certificates

Special Test Certificate

Shipping Approval













Shipping Approval

other





Confirmation



Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

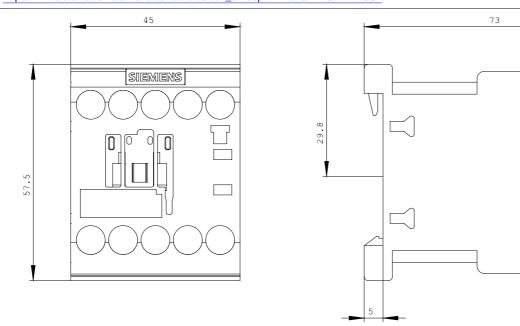
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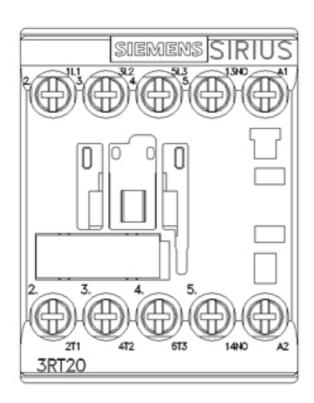
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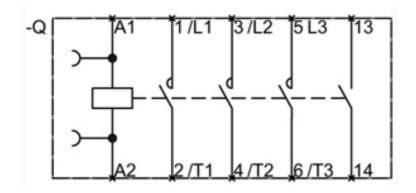
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