SIEMENS

Data sheet 3RT5064-6AP36



Contactor 220...240 V AC/DC AC3 110 kW 400 V AC (50...60 Hz) / DC operation auxiliary contacts 2 NO + 2 NC 3-pole, size S10 bar connections conventional operating mechan. screw terminal

| product brand name | SIRIUS | |
|--------------------------------------------------------------------------------------------------------------|----------------------------|--|
| product designation | Power contactor | |
| product type designation | 3RT5 | |
| General technical data | | |
| size of contactor | S10 | |
| product extension auxiliary switch | Yes | |
| power loss [W] for rated value of the current | | |
| at AC in hot operating state per pole | 17 W | |
| without load current share typical | 6.1 W | |
| type of calculation of power loss depending on pole | quadratic | |
| insulation voltage rated value | 1 000 V | |
| degree of pollution | 3 | |
| surge voltage resistance rated value | 8 kV | |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 690 V | |
| shock resistance at rectangular impulse | | |
| • at AC | 8,5g / 5 ms, 4,2g / 10 ms | |
| • at DC | 8,5g / 5 ms, 4,2g / 10 ms | |
| shock resistance with sine pulse | | |
| • at AC | 13,4g / 5 ms, 6,5g / 10 ms | |
| • at DC | 13,4g / 5 ms, 6,5g / 10 ms | |
| mechanical service life (operating cycles) | | |
| of contactor typical | 10 000 000 | |
| of the contactor with added auxiliary switch block typical | 10 000 000 | |
| Substance Prohibitance (Date) | 03/01/2017 | |
| Ambient conditions | | |
| installation altitude at height above sea level maximum | 2 000 m | |
| ambient temperature | | |
| during operation | -25 +60 °C | |
| during storage | -55 +80 °C | |
| Main circuit | | |
| number of poles for main current circuit | 3 | |
| number of NO contacts for main contacts | 3 | |
| number of NC contacts for main contacts | 0 | |
| operating voltage | | |
| at AC-3e rated value maximum | 1 000 V | |
| operational current | | |
| • at AC-1 up to 690 V | | |
| at ambient temperature 40 °C rated value | 275 A | |
| — at ambient temperature 60 °C rated value | 250 A | |

| • at AC-3 | |
|-----------------------------------------------------------------|---------------|
| — at 400 V rated value | 225 A |
| — at 690 V rated value | 225 A |
| • at AC-3e | |
| — at 400 V rated value | 225 A |
| connectable conductor cross-section in main circuit at AC- | |
| | 120 mm² |
| at 60 °C minimum permissible | |
| • at 40 °C minimum permissible | 150 mm² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 96 A |
| • at 690 V rated value | 85 A |
| operating power | |
| • at AC-1 | |
| — at 230 V at 60 °C rated value | 94 kW |
| — at 400 V at 60 °C rated value | 164 kW |
| — at 690 V at 60 °C rated value | 283 kW |
| • at AC-3 | |
| — at 230 V rated value | 73 kW |
| — at 400 V rated value | 128 kW |
| — at 690 V rated value | 223 kW |
| • at AC-3e | |
| — at 400 V rated value | 110 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | |
| • at 400 V rated value | 54 kW |
| at 690 V rated value | 82 kW |
| no-load switching frequency | |
| • at AC | 2 000 1/h |
| • at DC | 2 000 1/h |
| operating frequency | |
| • at AC-1 maximum | 750 1/h |
| • at AC-3 maximum | 500 1/h |
| • at AC-3e maximum | 500 1/h |
| • at AC-4 maximum | 130 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | |
| at 50 Hz rated value | 220 240 V |
| at 60 Hz rated value | 220 240 V |
| control supply voltage at DC | |
| rated value | 220 240 V |
| operating range factor control supply voltage rated value of | |
| magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.8 1.1 |
| design of the surge suppressor | with varistor |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 590 VA |
| • at 60 Hz | 590 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.9 |
| • at 60 Hz | 0.9 |
| apparent holding power of magnet coil at AC | |
| ● at 50 Hz | 6.7 VA |
| ● at 60 Hz | 6.7 VA |
| inductive power factor with the holding power of the coil | |
| ● at 50 Hz | 0.9 |
| ● at 60 Hz | 0.9 |
| closing power of magnet coil at DC | 650 W |
| holding power of magnet coil at DC | 7.4 W |
| | |

| Auxiliary circuit | |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| number of NC contacts for auxiliary contacts instantaneous contact | 2 |
| number of NO contacts for auxiliary contacts instantaneous contact | 2 |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| at 230 V rated value | 6 A |
| • at 400 V rated value | 3 A |
| operational current at DC-12 | |
| at 24 V rated value | 6 A |
| • at 110 V rated value | 3 A |
| • at 220 V rated value | 1 A |
| operational current at DC-13 | |
| at 24 V rated value | 6 A |
| at 110 V rated value | 1 A |
| at 220 V rated value | 0.3 A |
| UL/CSA ratings | |
| yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value | 150 hp |
| 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: 500 A |
| — with type of assignment 2 required | fuse gL/gG: 400 A |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |
| Installation/ mounting/ dimensions | |
| mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| fastening method | screw fixing |
| • side-by-side mounting | Yes |
| height | 210 mm |
| width | 145 mm |
| depth | 202 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| • for main current circuit | screw-type terminals |
| for auxiliary and control circuit | screw-type terminals |
| type of connectable conductor cross-sections | |
| • for auxiliary contacts | |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 1x 12 |
| Safety related data | |
| product function mirror contact according to IEC 60947-4-1 | Yes |
| protection class IP on the front according to IEC 60529 | IP00; IP20 with box terminal/cover |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front with box terminal/cover |
| Certificates/ approvals | |
| General Product Approval | EMC |
| | |





Confirmation







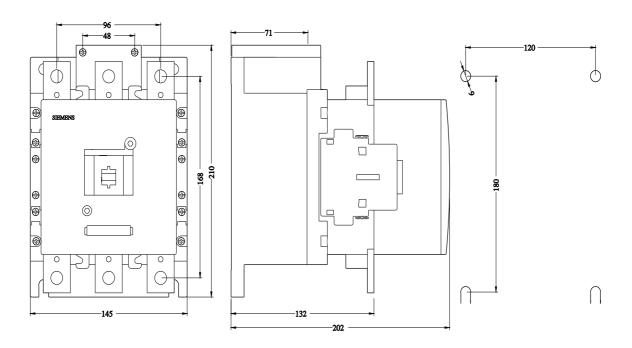
Declaration of Conformity

other



Confirmation

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