SIEMENS

Data sheet 3RT2016-1AP02

CONTACTOR, AC-3, 4KW/400V, 1NC, AC 230V, 50/60 HZ, 3-POLE, SZ S00 SCREW TERMINAL



| product brandname | SIRIUS |
|--------------------------|-----------------|
| Product designation | Power contactor |
| Product type designation | 3RT2 |

| S00 |
|-------|
| |
| No |
| Yes |
| |
| 690 V |
| 3 |
| 6 kV |
| |
| 400 V |
| |
| |
| IP20 |
| IP20 |
| |
| |

| • at AC | 6,7g / 5 ms, 4,2g / 10 ms |
|--|----------------------------|
| Shock resistance with sine pulse | |
| • at AC | 10,5g / 5 ms, 6,6g / 10 ms |
| Mechanical service life (switching cycles) | |
| of contactor typical | 30 000 000 |
| of the contactor with added electronics- compatible auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| Ambient conditions | |
| 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 |
| Operating voltage | |
| • at AC-3 rated value maximum | 690 V |
| Operating current | |
| • at AC-1 at 400 V | |
| — at ambient temperature 40 °C rated value | 22 A |
| • at AC-1 | |
| | 00.4 |

| viairi Circuit | |
|--|---------------------|
| Number of poles for main current circuit | 3 |
| Number of NO contacts for main contacts | 3 |
| Operating voltage | |
| at AC-3 rated value maximum | 690 V |
| Operating current | |
| • at AC-1 at 400 V | |
| — at ambient temperature 40 °C rated value | 22 A |
| • at AC-1 | |
| up to 690 V at ambient temperature 40 °C rated value | 22 A |
| up to 690 V at ambient temperature 60 °C rated value | 20 A |
| • at AC-2 at 400 V rated value | 9 A |
| • at AC-3 | |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| — at 690 V rated value | 6.7 A |
| Connectable conductor cross-section in main circuit at AC-1 | |
| • at 60 °C minimum permissible | 2.5 mm ² |
| • at 40 °C minimum permissible | 4 mm² |
| Operating current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 4.1 A |
| • at 690 V rated value | 3.3 A |
| Operating current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 20 A |
| | |

| — at 110 V rated value | 2.1 A |
|--|--------|
| — at 220 V rated value | 0.8 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.6 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 12 A |
| — at 220 V rated value | 1.6 A |
| — at 440 V rated value | 0.8 A |
| — at 600 V rated value | 0.7 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 20 A |
| — at 220 V rated value | 20 A |
| — at 440 V rated value | 1.3 A |
| — at 600 V rated value | 1 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 | 0.1 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 110 V rated value | 0.35 A |
| — at 24 V rated value | 20 A |
| • with 3 current paths in series at DC-3 at DC-5 | |
| — at 110 V rated value | 20 A |
| — at 220 V rated value | 1.5 A |
| — at 24 V rated value | 20 A |
| — at 440 V rated value | 0.2 A |
| — at 600 V rated value | 0.2 A |
| Operating power | |
| • at AC-1 | |
| — at 230 V rated value | 7.5 kW |
| — at 230 V at 60 °C rated value | 7.5 kW |
| — at 400 V rated value | 13 kW |
| — at 400 V at 60 °C rated value | 13 kW |
| — at 690 V rated value | 22 kW |
| — at 690 V at 60 °C rated value | 22 kW |
| • at AC-2 at 400 V rated value | 4 kW |
| ● at AC-3 | |
| — at 230 V rated value | 2.2 kW |
| — at 400 V rated value | 4 kW |
| | |

| Operating power for approx. 200000 operating cycles at AC-4 | — at 690 V rated value | 5.5 kW |
|--|---|-------------|
| * at 400 V rated value | | |
| * at 690 V rated value 2.5 kW Thermal short-time current limited to 10 a 72 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency * at AC 10 portain frequency * at AC-1 maximum 1 0000 1/h * at AC-2 maximum 750 1/h * at AC-3 maximum 750 1/h * at AC-4 maximum 250 1/h * at BC Hz rated value 230 V * at BC Hz rated value 31.1 * at BC Hz AC-4 maximum 250 1/h * at BC Hz rated value 31.7 * at BC Hz AC-4 maximum 31.7 * at BC Hz rated value 31.7 * at BC Hz rated value 31.7 * at BC Hz AC-4 maximum 31.7 * at BC Hz AC-4 maximum 32.7 * at BC Hz AC-5 maximum 47.7 * at BC Hz AC-7 maximum 57.7 * at BC Hz AC-8 maximum 78.7 * at BC Hz AC-9 maximum 78.7 * at B | at AC-4 | |
| Themal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum **Control circuit/ Control **Type of voltage of the control supply voltage Control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz **Inductive power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz **Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz | • at 400 V rated value | |
| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | • at 690 V rated value | |
| the operating current per conductor No-load switching frequency | | |
| No-load switching frequency | | 0.7 W |
| • at AC Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum Control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 50 Hz • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of the coil • at 50 Hz • at 60 Hz Apparent holding power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz As V-A Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Oz5 Closing delay • at AC Opening delay • at AC | | |
| Operating frequency ■ at AC-1 maximum ■ at AC-2 maximum ■ at AC-3 maximum ■ at AC-3 maximum ■ at AC-4 maximum ■ at SO Hz control supply voltage ■ Control circuit/ Control Type of voltage of the control supply voltage ■ at 50 Hz rated value ■ at 60 Hz rated value ■ at 60 Hz ■ a | • • • | 10 000 1/h |
| | | 10 000 1/11 |
| | | 1 000 1/b |
| • at AC-3 maximum • at AC-4 maximum 750 1/h • at AC-4 maximum 750 1/h 250 1/h Control circuit/ Control Type of voltage of the control supply voltage AC Control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value 230 V Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of the coil • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of the coil • at 50 Hz • at 60 Hz Colling delay • at AC Opening delay • at AC Opening delay • at AC Opening delay • at AC Oscious delay • at AC Opening delay • at AC Oscious delay • at AC Oscious delay • at AC Opening delay • at AC Oscious delay • at AC Oscious delay • at AC Opening delay • at AC Oscious delay • at AC Oscious delay • at AC Opening delay • at AC Oscious delay • at AC | | |
| • at AC-4 maximum 250 1/h Control circuit/ Control Type of voltage of the control supply voltage AC Control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz 1 at 60 Hz 1 at 50 Hz • at 60 Hz Apparent holding power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 1 at 50 Hz • at 60 Hz 1 at 50 Hz • at 60 Hz Coll • at 50 Hz • at 60 Hz 1 at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 60 Hz O.25 • at 60 Hz • at AC O.25 • at AC Opening delay • at AC Opening delay • at AC Opening delay • at AC Oscionary and maximum and make a control supply voltage at AC AC - at AC Oscionary and maximum and make a control supply voltage at AC Oscionary and maximum and make a control supply voltage at AC Opening delay • at AC Oscionary and maximum and make a control supply voltage at AC Oscionary and maximum and make a control supply voltage at AC AC - at AC Oscionary and maximum and make a control supply voltage at AC AC - at AC Oscionary and maximum and make a control supply voltage at AC - at AC Oscionary and maximum and make a control supply voltage at AC - at AC Oscionary and maximum and make a control supply voltage at AC - at AC Oscionary and maximum and make a control supply voltage at AC - at 50 Hz • at AC Oscionary and maximum and make a control supply voltage at AC - at 50 Hz • at 60 Hz • at 6 | | |
| Control circuit/ Control Type of voltage of the control supply voltage AC Control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz 1 Apparent pick-up power of the coil • at 50 Hz • at 60 Hz Apparent holding power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Coll • at 50 Hz • at 60 Hz As V-A Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz O.25 • at 60 Hz • at AC O.25 • at AC O.25 • at AC Opening delay • at AC Opening delay • at AC Opening delay • at AC Oscionance is a Control Supply voltage at AC | | |
| Type of voltage of the control supply voltage Control supply voltage at AC at 50 Hz rated value at 60 Hz rated value 230 V Operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz by at 60 Hz at 60 Hz Apparent pick-up power of magnet coil at AC at 60 Hz at 60 Hz by at 60 Hz at 60 Hz by at | • at AC-4 maximum | 250 1/n |
| Control supply voltage at AC | Control circuit/ Control | |
| • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz 0.8 1.1 • at 60 Hz 0.85 1.1 Apparent pick-up power of magnet coil at AC • at 50 Hz 27 V·A • at 60 Hz 31.7 V·A Inductive power factor with closing power of the coil • at 50 Hz 0.8 • at 60 Hz 4.2 V·A • at 50 Hz 4.8 V·A • at 60 Hz 4.8 V·A Inductive power factor with the holding power of the coil • at 50 Hz 0.25 • at 60 Hz 0.25 Closing delay 0.25 • at AC 9 35 ms Opening delay 0.4 t AC • at AC 3.5 14 ms | Type of voltage of the control supply voltage | AC |
| • at 60 Hz rated value Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz O.25 • at 60 Hz O.25 Closing delay • at AC Opening delay • at AC S.5 14 ms | Control supply voltage at AC | |
| Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Closing delay • at AC Opening delay • at AC As 1.1 Os. 8 1.1 As 1.1 As 1.1 Apparent holding power of magnet coil at AC • at 50 Hz O.25 Closing delay • at AC Opening delay • at AC 3.5 14 ms | ● at 50 Hz rated value | 230 V |
| value of magnet coil at AC 0.8 1.1 • at 50 Hz 0.8 1.1 Apparent pick-up power of magnet coil at AC 27 V·A • at 50 Hz 31.7 V·A • at 60 Hz 0.8 Inductive power factor with closing power of the coil 0.8 • at 50 Hz 0.81 • at 50 Hz 4.2 V·A • at 60 Hz 4.8 V·A Inductive power factor with the holding power of the coil 0.25 • at 50 Hz 0.25 • at 60 Hz 0.25 Closing delay • at AC • at AC 3.5 14 ms | • at 60 Hz rated value | 230 V |
| • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz 10.85 1.1 27 V·A 31.7 V·A Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Closing delay • at AC Opening delay • at AC 3.5 14 ms | | |
| | value of magnet coil at AC | |
| Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz 0.8 • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Closing delay • at AC Opening delay • at AC 3.5 14 ms | ● at 50 Hz | |
| • at 50 Hz 27 V·A • at 60 Hz 31.7 V·A Inductive power factor with closing power of the coil 0.8 • at 50 Hz 0.81 • at 50 Hz 4.2 V·A • at 50 Hz 4.8 V·A • at 60 Hz 0.25 Inductive power factor with the holding power of the coil 0.25 • at 50 Hz 0.25 • at 60 Hz 0.25 Closing delay • at AC 9 35 ms Opening delay • at AC 3.5 14 ms | | 0.85 1.1 |
| ■ at 60 Hz Inductive power factor with closing power of the coil ■ at 50 Hz ■ at 60 Hz Apparent holding power of magnet coil at AC ■ at 50 Hz ■ at 60 Hz Inductive power factor with the holding power of the coil ■ at 50 Hz ■ at 50 Hz ■ at 60 Hz Inductive power factor with the holding power of the coil ■ at 50 Hz ■ at 50 | Apparent pick-up power of magnet coil at AC | |
| Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz At 80 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz O.25 Closing delay • at AC Opening delay • at AC 3.5 14 ms | ● at 50 Hz | 27 V·A |
| at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 50 Hz at 60 Hz 0.25 at 60 Hz 0.25 at AC 9 35 ms Opening delay at AC 3.5 14 ms | ● at 60 Hz | 31.7 V·A |
| ● at 60 Hz Apparent holding power of magnet coil at AC ● at 50 Hz ● at 60 Hz Inductive power factor with the holding power of the coil ● at 50 Hz ● at 50 Hz ● at 60 Hz O.25 ● at 60 Hz Closing delay ● at AC Opening delay ● at AC 3.5 14 ms | Inductive power factor with closing power of the coil | |
| Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz O.25 • at 60 Hz Closing delay • at AC Opening delay • at AC 3.5 14 ms | ● at 50 Hz | 0.8 |
| ● at 50 Hz ● at 60 Hz As V·A Inductive power factor with the holding power of the coil ● at 50 Hz ● at 60 Hz Ac 0.25 Closing delay ● at AC 9 35 ms Opening delay ● at AC 3.5 14 ms | ● at 60 Hz | 0.81 |
| ● at 60 Hz Inductive power factor with the holding power of the coil ● at 50 Hz ● at 60 Hz O.25 ● at 60 Hz Closing delay ● at AC Opening delay ● at AC 3.5 14 ms | Apparent holding power of magnet coil at AC | |
| Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Closing delay • at AC Opening delay • at AC 3.5 14 ms | ● at 50 Hz | 4.2 V·A |
| coil • at 50 Hz 0.25 • at 60 Hz 0.25 Closing delay • at AC 9 35 ms Opening delay • at AC 3.5 14 ms | ● at 60 Hz | 4.8 V·A |
| ● at 50 Hz 0.25 ● at 60 Hz 0.25 Closing delay ● at AC 9 35 ms Opening delay ● at AC 3.5 14 ms | | |
| ● at 60 Hz Closing delay ● at AC 9 35 ms Opening delay ● at AC 3.5 14 ms | | |
| Closing delay • at AC 9 35 ms Opening delay • at AC 3.5 14 ms | ● at 50 Hz | |
| ◆ at AC 9 35 ms Opening delay at AC 3.5 14 ms • at AC | | 0.25 |
| Opening delay ● at AC 3.5 14 ms | | |
| • at AC 3.5 14 ms | | 9 35 ms |
| | | |
| Arcing time 10 15 ms | | |
| | Arcing time | 10 15 ms |

Residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible 10 mA

| Auxiliary circuit | |
|---|---|
| Number of NC contacts | |
| for auxiliary contacts | |
| — instantaneous contact | 1 |
| Operating current at AC-12 maximum | 10 A |
| Operating current at AC-15 | |
| • at 230 V rated value | 10 A |
| • at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |
| • at 690 V rated value | 1 A |
| Operating current at DC-12 | |
| • at 24 V rated value | 10 A |
| • at 48 V rated value | 6 A |
| • at 60 V rated value | 6 A |
| • at 110 V rated value | 3 A |
| • at 125 V rated value | 2 A |
| • at 220 V rated value | 1 A |
| • at 600 V rated value | 0.15 A |
| Operating current at DC-13 | |
| • at 24 V rated value | 10 A |
| • at 48 V rated value | 2 A |
| • at 60 V rated value | 2 A |
| • at 110 V rated value | 1 A |
| • at 125 V rated value | 0.9 A |
| • at 220 V rated value | 0.3 A |
| • at 600 V rated value | 0.1 A |
| Contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

| UL/CSA ratings | |
|--|---------|
| Full-load current (FLA) for three-phase AC motor | |
| • at 480 V rated value | 7.6 A |
| • at 600 V rated value | 9 A |
| Yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.33 hp |
| — at 230 V rated value | 1 hp |
| • for three-phase AC motor | |
| — at 200/208 V rated value | 2 hp |

| — at 220/230 V rated value | 3 hp |
|--|-------------|
| — at 460/480 V rated value | 5 hp |
| — at 575/600 V rated value | 7.5 hp |
| Contact rating of auxiliary contacts according to UL | A600 / Q600 |

Short-circuit protection

Design of the fuse link

- for short-circuit protection of the main circuit
 - with type of coordination 1 required
 - with type of assignment 2 required
- for short-circuit protection of the auxiliary switch required

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A

| 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 |
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| Side-by-side mounting | Yes |
| Height | 58 mm |
| Width | 45 mm |
| Depth | 73 mm |
| Required spacing | |
| for grounded parts | |
| — at the side | 6 mm |
| • for live 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 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| — single or multi-stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| at AWG conductors for main contacts | 2x (20 16), 2x (18 14), 2x 12 |
| Type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — single or multi-stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| at AWG conductors for auxiliary contacts | 2x (20 16), 2x (18 14), 2x 12 |
| | |

| Safety related data | |
|--|-------------|
| B10 value | |
| with high demand rate acc. to SN 31920 | 1 000 000 |
| Proportion of dangerous failures | |
| with low demand rate acc. to SN 31920 | 40 % |
| with high demand rate acc. to SN 31920 | 73 % |
| Failure rate [FIT] | |
| with low demand rate acc. to SN 31920 | 100 FIT |
| Product function | |
| Mirror contact acc. to IEC 60947-4-1 | Yes |
| T1 value for proof test interval or service life acc. to | 20 y |
| IEC 61508 | |
| Protection against electrical shock | finger-safe |

Certificates/approvals

General Product Approval

Functional Safety/Safety of Machinery









Baumusterbescheini gung

| Declaration of |
|----------------|
| Conformity |

Test Certificates

Shipping Approval

KTL



 $\frac{\underline{\text{spezielle}}}{\underline{\text{Prüfbescheinigunge}}}$

Typprüfbescheinigu ng/Werkszeugnis







GL

Shipping Approval











otherBestätigungen

Umweltbestätigung

other



Further information

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2016-1AP02

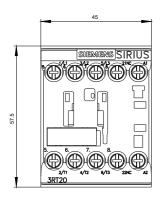
Cax online generator

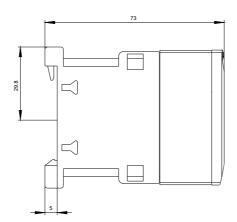
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-1AP02

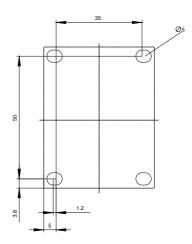
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

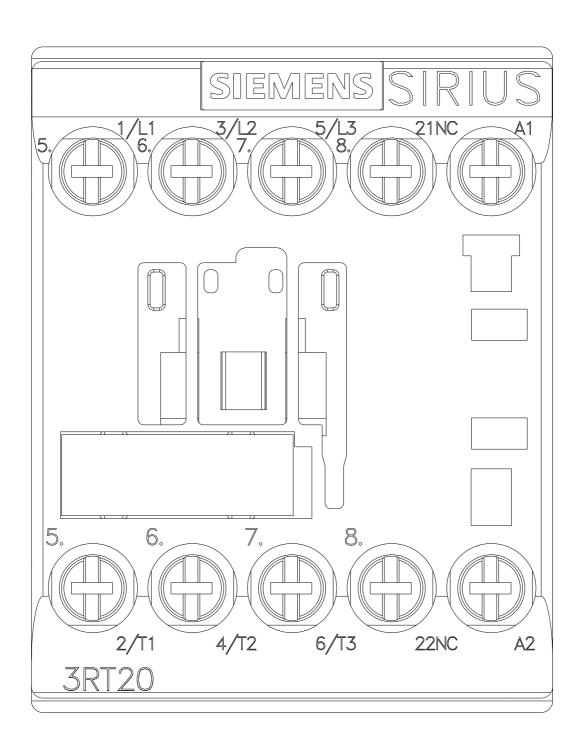
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1AP02

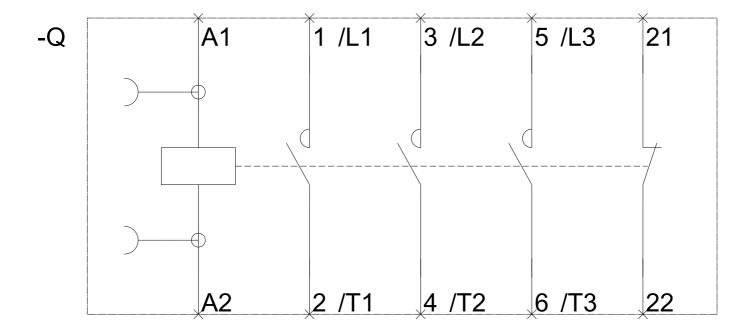
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-1AP02&lang=en











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