SIEMENS

Data sheet

3RT2018-2KB42-0LA0



traction contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, with integrated suppressor diode, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00, with plugged on series resistor

| product brand name | SIRIUS |
|---|-------------------------------|
| product designation | Power contactor |
| design of the product | With extended operating range |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S00 |
| product extension | |
| function module for communication | No |
| auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 6.6 W |
| at AC in hot operating state per pole | 2.2 W |
| without load current share typical | 4 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 690 V |
| of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| surge voltage resistance | |
| of main circuit rated value | 6 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V |
| shock resistance at rectangular impulse | |
| • at DC | 7.3g / 5 ms, 4.7g / 10 ms |
| shock resistance with sine pulse | |
| • at DC | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 30 000 000 |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 10/01/2009 |
| 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 |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |
| Main circuit | |

| 3 |
|--------------------------------|
| 3 |
| |
| 690 V |
| 690 V |
| |
| 22 A |
| |
| |
| 22 A |
| 20 A |
| 16 A |
| |
| 16 A |
| 12.4 A |
| 8.9 A |
| 0.0 A |
| 16 A |
| 16 A 12.4 A |
| |
| 8.9 A |
| 11.5 A |
| 4 mm ² |
| - ⁴ mm ⁻ |
| |
| 5.5 A |
| 4.4 A |
| |
| |
| 20 A |
| 2.1 A |
| 0.8 A |
| 0.6 A |
| 0.6 A |
| |
| 20 A |
| 12 A |
| 1.6 A |
| 0.8 A |
| 0.7 A |
| |
| 20 A |
| 20 A |
| 20 A |
| 1.3 A |
| 1A |
| |
| 20 A |
| 0.1 A |
| |
| 20 A |
| 0.35 A |
| |
| 20 A |
| 20 A 20 A |
| 20 A 1.5 A |
| |
| 0.2 A |
| 0.2 A |
| 7 6 1441 |
| 7.5 kW |
| |

| • at AC-3 | |
|---|---|
| — at 230 V rated value | 4 kW |
| — at 400 V rated value | 7.5 kW |
| — at 500 V rated value | 7.5 kW |
| — at 690 V rated value | 7.5 kW |
| • at AC-3e | |
| — at 230 V rated value | 4 kW |
| — at 400 V rated value | 7.5 kW |
| — at 500 V rated value | 7.5 kW |
| — at 690 V rated value | 7.5 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | 0.5111 |
| • at 400 V rated value | 2.5 kW |
| at 690 V rated value | 3.5 kW |
| short-time withstand current in cold operating state up to 40 °C | |
| limited to 1 s switching at zero current maximum | 300 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 169 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 128 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 92 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 74 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| • at DC | 1 500 1/h |
| operating frequency | |
| at AC-2 at AC-3e maximum | 750 1/h |
| • at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage | DC |
| type of voltage of the control supply voltage | DC |
| control supply voltage at DC | |
| rated value | 24 ∨ |
| | |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| operating range factor control supply voltage rated value of | 0.7 |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value | 0.7 |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value | 0.7 1.25 |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor | 0.7 1.25 suppressor diode |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC | 0.7 1.25 suppressor diode 13 W |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC | 0.7 1.25 suppressor diode 13 W |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 10 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 10 A 3 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 10 A 3 A 2 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 10 A 3 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 10 A 3 A 2 A 1 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 10 A 3 A 2 A 1 A 10 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 3 A 2 A 1 A 10 A 3 A 2 A 1 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 3 A 2 A 1 A 10 A 3 A 2 A 1 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value • at 400 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 3 A 2 A 1 A 10 A 3 A 2 A 1 A 10 A 3 A 2 A 1 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 at 500 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 3 A 2 A 1 A 10 A 3 A 2 A 1 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 4110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 1 10 A 3 A 2 A 1 A 10 A 3 A 2 A 1 A |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 at 500 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value | 0.7 1.25 suppressor diode 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 3 A 2 A 1 A 10 A 3 A 2 A 1 A |

| 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 |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| • at 480 V rated value | 14 A |
| at 600 V rated value | 11 A |
| yielded mechanical performance [hp] | |
| | |
| for single-phase AC motor | 4 hz |
| — at 110/120 V rated value | 1 hp |
| — at 230 V rated value | 2 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 3 hp |
| — at 220/230 V rated value | 5 hp |
| — at 460/480 V rated value | 10 hp |
| — at 575/600 V rated value | 10 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| product function short circuit protection | No |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA) |
| — with type of assignment 2 required | gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| 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 |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| side-by-side mounting | Yes |
| | |
| height | 70 mm |
| · · · · · · · · · · · · · · · · · · · | 70 mm 45 mm |
| height | |
| height width | 45 mm |
| height width depth | 45 mm |
| height width depth required spacing | 45 mm |
| height width depth required spacing • with side-by-side mounting | 45 mm 121 mm |
| height width depth required spacing • with side-by-side mounting — forwards | 45 mm 121 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards | 45 mm 121 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side | 45 mm 121 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — upwards — upwards | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — upwards — at the side — forwards — upwards — at the side | 45 mm 121 mm 10 mm 10 mm 0 mm 10 mm 10 mm 6 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — upwards — at the side — at the side — at the side — at the side — downwards | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — forwards — upwards — for grounded parts — forwards — upwards — at the side — downwards — for live parts | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side - for live parts - forwards | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards • upwards | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side - forwards - at the side - forwards - at the side - downwards • for live parts - forwards - upwards - downwards • for live parts - downwards - downwards | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - at the side - downwards • for live parts - upwards - upwards - upwards - at the side | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side - forwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - downwards - at the side - downwards - at the side | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - at the side - downwards • for live parts - forwards - upwards - at the side - downwards • for live parts - at the side - downwards - at the side - downwards - at the side Variable - downwards - at the side - at the side - downwards - at the side - downwards - at the side | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - at the side - downwards - forwards - at the side - downwards - at the side - downwards - at the side - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - downwards • for live parts - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - downwards - forwards - upwards - at the side Ownwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - downwards • for live parts - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - downwards - forwards - upwards - at the side Ownwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 |
| height width depth required spacing • with side-by-side mounting - forwards - upwards - upwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - downwards - forwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts | 45 mm 121 mm 10 mm 10 mm 10 mm 0 mm 10 mm 20 |

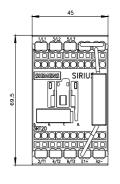
| finally stranded with | | | | | |
|---|---|--------------------|---------------------------------|---|-------------------------------|
| • | th core end processing | | 2x (0.5 2.5 mm²) | | |
| | hout core end processing | - | 2x (0.5 2.5 mm ²) | | |
| type of connectable co | | 5 | | | |
| for auxiliary contact | | | | | |
| — solid or stran | | | 2x (0,5 4 mm²) | | |
| | ed with core end process | 0 | 2x (0.5 2.5 mm²) | | |
| | ed without core end proc | essing | 2x (0.5 2.5 mm²) | | |
| for AWG cables for | | | 2x (20 12) | | |
| AWG number as coded section | I connectable conducto | or cross | | | |
| for main contacts | | | 20 12 | | |
| for auxiliary contact | cts | | 20 12 | | |
| Safety related data | | | | | |
| product function | | | | | |
| | ording to IEC 60947-4-1 | | Yes | | |
| | peration according to IE0 | | No | | |
| B10 value with high dem | | 1 31920 | 1 000 000 | | |
| proportion of dangerou | | | | | |
| | rate according to SN 319 | | 40 % | | |
| | rate according to SN 319 | | 73 % | | |
| failure rate [FIT] with low | | | 100 FIT | | |
| T1 value for proof test int 61508 | terval or service life acco | ording to IEC | 20 a | | |
| protection class IP on t | the front according to I | EC 60529 | IP20 | | |
| touch protection on the | • | | finger-safe, for vertical conta | act from the front | |
| Communication/ Protoco | - | 00020 | inger sale, for vertical conta | | |
| product function bus co | | | No | | |
| Certificates/ approvals | ommunication | | NO | | |
| | | | | | |
| General Product Appro | ovai | | | | |
| | | <u>Confirmatio</u> | • () | KC | EHC |
| EMC | Functional Safety/Safety of Ma- chinery | Declaration of | Conformity | Test Certificates | |
| RCM | Type Examination Cer- tificate | UK CA | CE EG-Konf. | Type Test Certific- ates/Test Report | Special Test Certific- ate |
| Marine / Shipping | | | | | |
| ABS | BUREAU | | Lloyds Register urs | PRS | RINA |
| | VERITAS | | | | |
| Marine / Shipping | VERITAS | | Railway | | Dangerous Good |
| Marine / Shipping | other Confirmation | DE | Railway Vibration and Shock | <u>Special Test Certific-</u> ate | Dangerous Good |

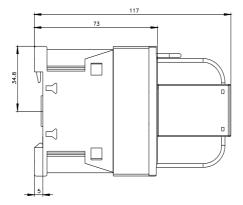
| ther information | |
|---|--------|
| iemens has decided to exit the Russian market (see here). | |
| ttps://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business | |
| iemens is working on the renewal of the current EAC certificates. | |
| lease contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these produ AC relevant market (other than the sanctioned EAEU member states Russia or Belarus). | ucts t |
| formation on the packaging | |
| ttps://support.industry.siemens.com/cs/ww/en/view/109813875 | |
| formation- and Downloadcenter (Catalogs, Brochures,) | |
| ttps://www.siemens.com/ic10 | |
| dustry Mall (Online ordering system) | |
| ttps://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-2KB42-0LA0 | |
| ax online generator | |
| ttp://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-2KB42-0LA0 | |
| ervice&Support (Manuals, Certificates, Characteristics, FAQs,) | |
| ttps://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2KB42-0LA0 | |
| nage database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) ttp://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-2KB42-0LA0⟨=en | |
| | |

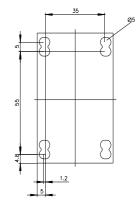
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2KB42-0LA0/char

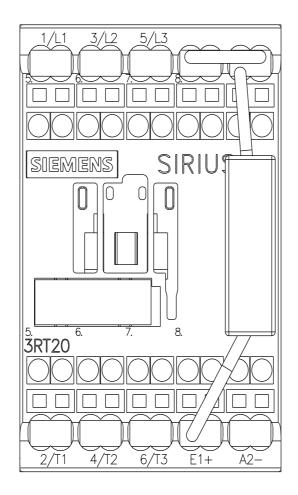
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-2KB42-0LA0&objecttype=14&gridview=view1

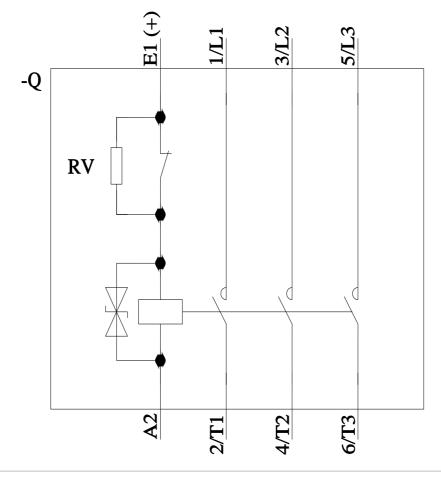






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