SIEMENS

Data sheet

3RT2018-2AP62



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00 $\,$

| 200 - 200 - 200 | | | | |
|---|----------------------------|--|--|--|
| product brand name | SIRIUS | | | |
| product designation | Power contactor | | | |
| 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 | 3 W | | | |
| at AC in hot operating state per pole | 1 W | | | |
| without load current share typical | 1.7 W | | | |
| type of calculation of power loss depending on pole | quadratic | | | |
| 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 AC | 7,3g / 5 ms, 4,7g / 10 ms | | | |
| shock resistance with sine pulse | | | | |
| • at AC | 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 | | | |
| Weight | 0.258 kg | | | |
| 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 | | | |
| relative humidity minimum | 10 % | | | |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % | | | |

| Environmental footprint | |
|--|-------------------|
| Environmental Product Declaration(EPD) | Yes |
| global warming potential [CO2 eq] total | 39.6 kg |
| global warming potential [CO2 eq] during manufacturing | 1.18 kg |
| global warming potential [CO2 eq] during operation | 38.5 kg |
| global warming potential [CO2 eq] after end of life | -0.155 kg |
| 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 |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 | 22 A |
| 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-3 | |
| — at 400 V rated value | 16 A |
| — at 500 V rated value | 12.4 A |
| — at 690 V rated value | 8.9 A |
| • at AC-3e | |
| - at 400 V rated value | 16 A |
| - at 500 V rated value | 12.4 A |
| — at 690 V rated value at AC-4 at 400 V rated value | 8.9 A 11.5 A |
| at AC-4 at 400 V rated value at AC-5a up to 690 V rated value | 19.4 A |
| • at AC-5b up to 400 V rated value | 13.2 A |
| • at AC-6a | 10.27 |
| — up to 230 V for current peak value n=20 rated value | 9.6 A |
| — up to 400 V for current peak value n=20 rated value | 9.6 A |
| — up to 500 V for current peak value n=20 rated value | 9.6 A |
| — up to 690 V for current peak value n=20 rated value | 8.9 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 6.6 A |
| — up to 400 V for current peak value n=30 rated value | 6.4 A |
| — up to 500 V for current peak value n=30 rated value | 6.4 A |
| — up to 690 V for current peak value n=30 rated value | 6.4 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 4 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | 5.5.4 |
| at 400 V rated value at 690 V rated value | 5.5 A 4.4 A |
| operational current | |
| • at 1 current path at DC-1 | |
| - at 24 V rated value | 20 A |
| — at 60 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 60 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 2 surrant action in carias at DC 4 | | | | |
|--|---|--|--|--|
| with 3 current paths in series at DC-1 — at 24 V rated value | 20 A | | | |
| — at 60 V rated value | 20 A 20 A | | | |
| — at 110 V rated value | | | | |
| | 20 A | | | |
| — at 220 V rated value | 20 A 1.3 A | | | |
| — at 440 V rated value | 1.3 A 1 A | | | |
| — at 600 V rated value | IA | | | |
| at 1 current path at DC-3 at DC-5 | 20 A | | | |
| — at 24 V rated value | 20 A | | | |
| — at 60 V rated value — at 110 V rated value | 0.5 A | | | |
| | 0.15 A | | | |
| with 2 current paths in series at DC-3 at DC-5 at 24 V reted value | 20 A | | | |
| — at 24 V rated value | 5 A | | | |
| — at 60 V rated value | 0.35 A | | | |
| — at 110 V rated value with 3 current paths in series at DC-3 at DC-5 | 0.55 A | | | |
| - at 24 V rated value | 20 A | | | |
| — at 60 V rated value | 20 A | | | |
| — at 10 V rated value | 20 A 20 A | | | |
| — at 220 V rated value | 20 A 1.5 A | | | |
| — at 440 V rated value | 0.2 A | | | |
| — at 600 V rated value | 0.2 A | | | |
| operating power | | | | |
| at AC-2 at 400 V rated value | 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 | | | | |
| • at 400 V rated value | 2.5 kW | | | |
| at 690 V rated value | 3.5 kW | | | |
| operating apparent power at AC-6a | | | | |
| up to 230 V for current peak value n=20 rated value | 3.8 kVA | | | |
| up to 400 V for current peak value n=20 rated value | 6.6 kVA | | | |
| up to 500 V for current peak value n=20 rated value | 8.3 kVA | | | |
| • up to 690 V for current peak value n=20 rated value | 10.6 kVA | | | |
| operating apparent power at AC-6a | | | | |
| up to 230 V for current peak value n=30 rated value | 2.5 kVA | | | |
| • up to 400 V for current peak value n=30 rated value | 4.4 kVA | | | |
| • up to 500 V for current peak value n=30 rated value | 5.5 kVA | | | |
| up to 690 V for current peak value n=30 rated value | 7.6 kVA | | | |
| short-time withstand current in cold operating state up to 40 °C | | | | |
| Imited to 1 s switching at zero current maximum | 300 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| Imited to 5 s switching at zero current maximum | 169 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| Imited to 10 s switching at zero current maximum | 128 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| Imited to 30 s switching at zero current maximum | 92 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| Imited to 60 s switching at zero current maximum | 74 A; Use minimum cross-section acc. to AC-1 rated value | | | |
| no-load switching frequency | 40,000,4% | | | |
| • at AC | 10 000 1/h | | | |
| operating frequency | 1,000,1/b | | | |
| at AC-1 maximum at AC-2 maximum | 1 000 1/h | | | |
| • at AC-2 maximum | 750 1/h 750 1/h | | | |
| • at AC-3 maximum | 750 1/h | | | |

| • at AC-3e maximum | 750 1/h | | | |
|--|--|--|--|--|
| • 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 | 220 V | | | |
| • at 60 Hz rated value | 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 | | | |
| apparent pick-up power of magnet coil at AC | | | | |
| ● at 50 Hz | 36 VA | | | |
| ● at 60 Hz | 36 VA | | | |
| inductive power factor with closing power of the coil | | | | |
| • at 50 Hz | 0.8 | | | |
| • at 60 Hz | 0.8 | | | |
| apparent holding power of magnet coil at AC | | | | |
| • at 50 Hz | 5.9 VA | | | |
| • at 60 Hz | 5.9 VA | | | |
| inductive power factor with the holding power of the coil | | | | |
| • at 50 Hz | 0.24 | | | |
| • at 60 Hz | 0.24 | | | |
| closing delay | | | | |
| • at AC | 9 35 ms | | | |
| opening delay | | | | |
| • at AC | 4 15 ms | | | |
| arcing time | 10 15 ms | | | |
| control version of the switch operating mechanism | Standard A1 - A2 | | | |
| Auxiliary circuit | | | | |
| | 1 | | | |
| number of NC contacts for auxiliary contacts instantaneous | | | | |
| contact | | | | |
| contact operational current at AC-12 maximum | 10 A | | | |
| | 10 A | | | |
| operational current at AC-12 maximum | 10 A 10 A | | | |
| operational current at AC-12 maximum operational current at AC-15 | | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value | 10 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value | 10 A 3 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value | 10 A 3 A 2 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value | 10 A 3 A 2 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 | 10 A 3 A 2 A 1 A 10 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 48 V rated value • at 24 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 40 V rated value • at 410 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 40 V rated value • at 410 V rated value • at 410 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 600 V rated value • at 20 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 60 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 220 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 125 V rated value • at 125 V rated value • at 60 V rated value • at 125 V rated v | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 1 A 0.15 A 1 A 1 A 0.15 A | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 125 V rated value • at 60 V rated value • at 125 V rated value • at 60 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 | | | |
| operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value | 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 | | | |

| at 110/120 \ / sated value | 1 hn | | | | |
|--|--|--|--|--|--|
| - 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 | | | | | |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V | C characteristic: 10 A; 0.4 kA | | | | |
| design of the fuse link | | | | | |
| 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 side-by-side mounting | Yes | | | | |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 | | | | |
| height | 70 mm | | | | |
| width | 45 mm | | | | |
| depth | 73 mm | | | | |
| required spacing | | | | | |
| with side-by-side mounting | | | | | |
| — forwards | 10 mm | | | | |
| — upwards | 10 mm | | | | |
| — downwards | 10 mm | | | | |
| — at the side | 0 mm | | | | |
| for grounded parts | | | | | |
| — forwards | 10 mm | | | | |
| — upwards | 10 mm | | | | |
| — at the side | 6 mm | | | | |
| — downwards | 10 mm | | | | |
| for live parts | | | | | |
| — forwards | 10 mm | | | | |
| — upwards | 10 mm | | | | |
| — downwards | 10 mm | | | | |
| — at the side | 6 mm | | | | |
| Connections/ Terminals | | | | | |
| type of electrical connection | | | | | |
| for main current circuit | spring-loaded terminals | | | | |
| for auxiliary and control circuit | spring-loaded terminals | | | | |
| at contactor for auxiliary contacts | Spring-type terminals | | | | |
| of magnet coil | Spring-type terminals | | | | |
| type of connectable conductor cross-sections | | | | | |
| • for main contacts | | | | | |
| — solid | 2x (0.5 4 mm²) | | | | |
| — solid or stranded | 2x (0,5 4 mm²) | | | | |
| - finely stranded with core end processing | 2x (0.5 2.5 mm²) | | | | |
| - finely stranded without core end processing | 2x (0.5 2.5 mm²) | | | | |
| for AWG cables for main contacts | 2x (20 12) | | | | |
| connectable conductor cross-section for main contacts | | | | | |
| • solid | 0.5 4 mm² | | | | |
| • stranded | 0.5 4 mm² | | | | |
| finely stranded with core end processing | 0.5 2.5 mm² | | | | |
| finely stranded without core end processing | 0.5 2.5 mm² | | | | |
| connectable conductor cross-section for auxiliary contacts | | | | | |
| solid or stranded | 0.5 4 mm² | | | | |
| finely stranded with core end processing | 0.5 2.5 mm² | | | | |
| finely stranded without core end processing | 0.5 2.5 mm² | | | | |
| type of connectable conductor cross-sections | | | | | |
| for auxiliary contacts | | | | | |
| | | | | | |

| solid or strandod | 2× (0 F | 1 mm^2 | | |
|--|------------------------------------|--------------------------------|----------------------|---------------------|
| — solid or stranded — finely stranded with core end processing | | 4 mm²) 2.5 mm²) | | |
| inely stranded with core end processing finely stranded without core end processing | | | | |
| Intervision and a without core and processing for AWG cables for auxiliary contacts | | 2x (0.5 2.5 mm²) 2x (20 12) | | |
| AWG number as coded connectable conductor cross section | 2x (20 | 12) | | |
| for main contacts | 20 1 | 2 | | |
| for auxiliary contacts | 20 1 | 2 | | |
| Safety related data | | | | |
| product function | | | | |
| mirror contact according to IEC 60947-4-1 | Yes | | | |
| positively driven operation according to IEC 60947-5- | 1 No | | | |
| suitable for safety function | Yes | | | |
| suitability for use safety-related switching OFF | Yes | | | |
| service life maximum | 20 a | | | |
| test wear-related service life necessary | Yes | | | |
| proportion of dangerous failures | | | | |
| with low demand rate according to SN 31920 | 40 % | | | |
| with high demand rate according to SN 31920 | 73 % | | | |
| B10 value with high demand rate according to SN 31920 | 1 000 0 | 000 | | |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FI | | | |
| ISO 13849 | | | | |
| device type according to ISO 13849-1 | 3 | | | |
| overdimensioning according to ISO 13849-2 necessary IEC 61508 | Yes | | | |
| safety device type according to IEC 61508-2 | Туре А | ۱. | | |
| Electrical Safety | | | | |
| protection class IP on the front according to IEC 60529 | IP20 | | | |
| touch protection on the front according to IEC 60529 | finger-s | safe, for vertical contac | ct from the front | |
| Approvals Certificates | | | | |
| General Product Approval | | | | |
| | G-Konf. | Ű | KC | EHC |
| EMV Test Certificates | | Marine / Shipping | | |
| | <u>est Certific-</u> est Report | ABS | BUREAU VERITAS | |
| Marine / Shipping | | | other | |
| manne / onipping | | | | |
| Lloyds LRS PRS | RINA | KMRS | <u>Miscellaneous</u> | <u>Confirmation</u> |
| LIRS PRS | RINA | KMRS | Miscellaneous | <u>Confirmation</u> |
| Hoyds Register | RINA | KMRS RMRS | <u>Miscellaneous</u> | Confirmation |
| Image: Construction of the second | mental Con- nations | KMRS | Miscellaneous | Confirmation |
| Image: Construction of the second | | KARS | Miscellaneous | Confirmation |

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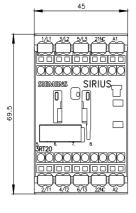
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-2AP62&lang=en

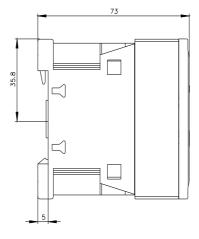
Characteristic: Tripping characteristics, I2t, Let-through current

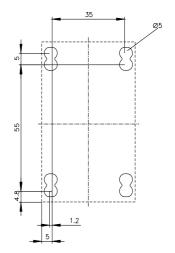
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2AP62/char

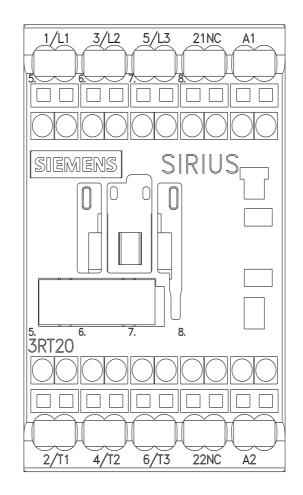
Further characteristics (e.g. electrical endurance, switching frequency)

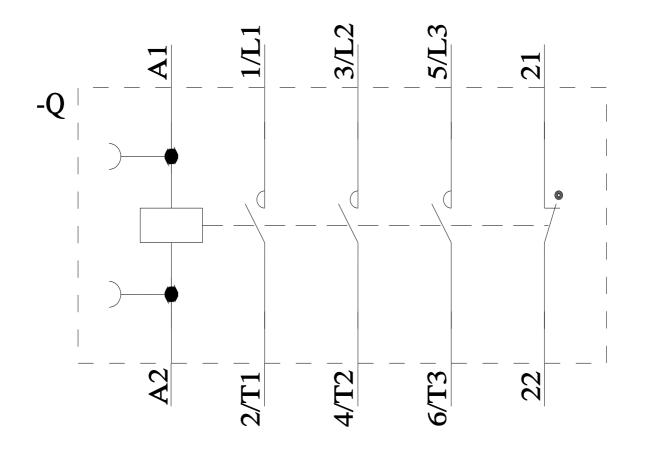
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