SIEMENS

Data sheet

3RT2016-1AT61



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 600 V AC, 60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00

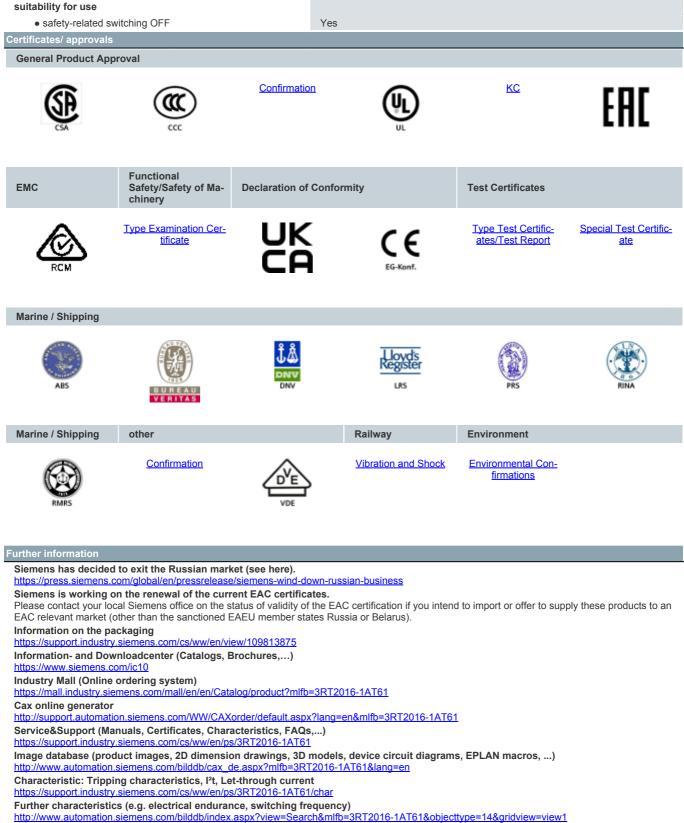
| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S00 |
| product extension | |
| function module for communication | No |
| auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 0.9 W |
| at AC in hot operating state per pole | 0.3 W |
| without load current share typical | 4.8 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 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 (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 | -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 % |
| Main circuit | |
| number of poles for main current circuit | 3 |

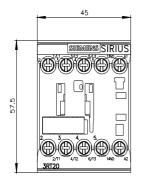
| number of NO contacts for main contacts | 3 |
|--|-------------------|
| operating voltage | |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| • at AC-1 at 400 V at ambient temperature 40 °C rated | 22 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 22 A |
| — up to 690 V at ambient temperature 60 °C rated | 20 A |
| value | |
| • 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 |
| • at AC-3e | |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| — at 690 V rated value | 6.7 A |
| at AC-4 at 400 V rated value | 8.5 A |
| at AC-5a up to 690 V rated value | 19.4 A |
| • at AC-5b up to 400 V rated value | 7.4 A |
| • at AC-6a | 504 |
| — up to 230 V for current peak value n=20 rated value | 5.3 A |
| — up to 400 V for current peak value n=20 rated value | 5.3 A |
| up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value | 5.3 A 5 A |
| at AC-6a | 54 |
| up to 230 V for current peak value n=30 rated value | 3.5 A |
| — up to 400 V for current peak value n=30 rated value | 3.5 A |
| — up to 500 V for current peak value n=30 rated value | 3.6 A |
| — up to 500 V for current peak value n=30 rated value | 3.3 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 4 mm ² |
| value operational 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 |
| 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 3 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 | 20 A |
| — at 220 V rated value | 20 A |
| — at 440 V rated value | 1.3 A |
| — at 600 V rated value | 1 A |
| at 1 current path at DC-3 at DC-5 | |

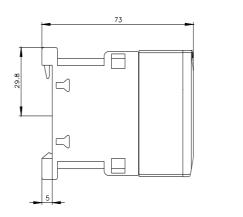
| - at 54 V rade value 20 A - at 510 V rade value 0.5 A - at 54 V rade value 0.5 A - at 54 V rade value 20 A - at 54 V rade value 5 A - at 54 V rade value 20 A - at 55 V rade value 20 A - at 550 V rade value 20 A - at 650 V rade value 0.2 A - at 520 V rade value 0.2 A - at 520 V rade value 4 WV - at 520 V rade value 2 L WV - at 520 V rade value 5 S WV - at 520 V rade value 5 S WV - at 520 V rade value 5 S WV - at 520 V rade value 5 S W - at 520 V rade value 2 L WV - at 520 V rade value 2 S W - at 520 V rade value 2 S W - at 520 V rade value 2 S W - at 520 V rade value 2 S W - at 520 V rade value 2 S W - at 600 V rade value 2 S W | | |
|--|---|---|
| | — at 24 V rated value | 20 A |
| • with 2 current paths in series at DC-3 at DC-620 A- at 60 V rated value5A- at 70 V rated value5A- at 70 V rated value5A- at 80 V rated value20 A- at 80 V rated value20 A- at 81 V rated value22 A- at 81 V rated value22 A- at 81 V rated value80 A- at 81 V rated value80 A- at 81 V rated value22 A/W- at 810 V rated value4 W- at 810 V rated value22 A/W- at 810 V rated value24 W- at 810 V rated value24 W- at 810 V rated value24 W- at 810 V rated value30 A- at 810 V rated value30 A- at 810 V rated value -20 at dvalue30 A- at 810 V rated value -20 at dvalue30 A- at 810 V rated value -20 at dvalue30 A- at 810 V rated value -20 at dvalue30 A- at 810 V rated value -20 at dvalue30 A- at 810 V rated value -20 at dval | — at 60 V rated value | 0.5 A |
| - at 20 Y rates value 20 A - at 10 V rates value 356 A - at 10 V rates value 20 A - at 20 V rates value 20 A - at 20 V rates value 20 A - at 10 V rates value 20 A - at 20 V rates value 40 W - at 20 V rates value 40 W - at 20 V rates value 40 W - at 20 V rates value 55 KW - at 20 V rates value 40 W - at 20 V rates value 50 W - at 20 V rates value 20 W - at 50 V rates value 20 W | — at 110 V rated value | 0.15 A |
| | with 2 current paths in series at DC-3 at DC-5 | |
| | — at 24 V rated value | 20 A |
| • with 3 current paths in series at DC-3 at DC-5- at 24 V rands value20 A- at 10 V rands value20 A- at 110 V rands value20 A- at 240 V rands value20 A- at 240 V rands value0.2 A- at 240 V rands value0.2 A- at 240 V rands value2.2 A- at 240 V rands value2.2 A- at 240 V rands value2.2 A- at 240 V rands value4.W- at 230 V rands value4.W- at 300 V rands value4.W- at 300 V rands value5.S W- at 240 V rands value5.S W- at 250 V rands value2.2 AW- at 300 V rands value5.S W- at 300 V rands value2.2 AW- at 300 V rands value2.2 AW- at 400 V rands value2.4 AW- | — at 60 V rated value | 5 A |
| - at 24 Vinter value - at 26 Vinter value - at 20 Vinter value - at 20 Vinter value - at 22 Vinter value | — at 110 V rated value | 0.35 A |
| | with 3 current paths in series at DC-3 at DC-5 | |
| | — at 24 V rated value | 20 A |
| | — at 60 V rated value | 20 A |
| | — at 110 V rated value | 20 A |
| | — at 220 V rated value | 1.5 A |
| operating power 4 kW • at AC2 at 400 V rated value 4 kW • - at 230 V rated value 2 kW | — at 440 V rated value | 0.2 A |
| • at AC2 at 400 V rated value 4 kW • at AC3 - at 230 V rated value - at 400 V rated value 4 kW - at 690 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 2 kW - at 600 V rated value 5 kW - at 600 V rated value 4 kW - at 600 V rated value 5 kW - at 600 V rated value 5 kW - at 600 V rated value 5 kW - at 600 V rated value 2 kW - at 600 V rated value 2 kW - at 600 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V rated value = 20 rated value 3 kVA • up to 500 V for current pack value n=20 rated value 5 kVA • up to 500 V for current pack value n=20 rated value 5 kVA • up to 500 V for current pack value n=20 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated val | — at 600 V rated value | 0.2 A |
| • at AC2 at 400 V rated value 4 kW • at AC3 - at 230 V rated value - at 400 V rated value 4 kW - at 690 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 2 kW - at 600 V rated value 5 kW - at 600 V rated value 4 kW - at 600 V rated value 5 kW - at 600 V rated value 5 kW - at 600 V rated value 5 kW - at 600 V rated value 2 kW - at 600 V rated value 2 kW - at 600 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V rated value = 20 rated value 3 kVA • up to 500 V for current pack value n=20 rated value 5 kVA • up to 500 V for current pack value n=20 rated value 5 kVA • up to 500 V for current pack value n=20 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated val | operating power | |
| • at AC-3 2.2 kW - at 300 V rated value 4 kW - at 500 V rated value 4 kW - at 500 V rated value 5.5 kW • at AC-3e 2.2 kW - at 300 V rated value 5.5 kW - at 300 V rated value 2.2 kW - at 300 V rated value 4 kW - at 300 V rated value 4 kW - at 500 V rated value 4 kW - at 500 V rated value 5 kW operating power for approx. 20000 operating cycles at AC- 2 kW - at 600 V rated value 2 kW • at 400 V rated value 2 kW • at 600 V rated value 3 kVA • up to 500 V for current peak value n=20 rated value 3 kVA • up to 500 V for current peak value n=20 rated value 3 kVA • up to 500 V for current peak value n=30 rated value 3 kVA • up to 500 V for current peak value n=30 rated value 3 kVA • up to 500 V for current peak value n=30 rated value 3 kVA • up to 500 V for current peak value n=30 rated value 3 kVA • up to 500 V for current peak value n=30 rated value 3 kVA | | 4 kW |
| | | |
| | | 2.2 kW |
| | | |
| | | |
| • at AC-3e - at 230 V rated value 2.2 kW at 230 V rated value 4 kW at 500 V rated value 4 kW at 500 V rated value 4 kW at 600 V rated value 5 kW operating power for approx. 20000 operating cycles at AC-4 5 kW • at 400 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V for current pask value n=20 rated value 2 kVA • up to 500 V for current pask value n=20 rated value 3 kVA • up to 500 V for current pask value n=20 rated value 4 kWA • up to 500 V for current pask value n=20 rated value 3 kVA • up to 500 V for current pask value n=30 rated value 3 kVA • up to 500 V for current pask value n=30 rated value 3 kVA • up to 500 V for current pask value n=30 rated value 3 kVA • up to 500 V for current pask value n=30 rated value 3 kVA • up to 500 V for current pask value n=30 rated value 4 kVA • short-time withethand current in cold operating state up to 500 V for current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 19 s switching at zero current maximum 60 A; Use minimum cr | | |
| | | |
| | | 2.2 kW |
| | | |
| → at 690 V rated value 5 kW operating power for approx. 20000 operating cycles at AC-4 2 kW • at 400 V rated value 2 kW • at 660 V rated value 2 kW • at 660 V rated value 2 kW • up to 230 V for current peak value n=20 rated value 3 kVA • up to 500 V for current peak value n=20 rated value 4 kVA • up to 600 V for current peak value n=20 rated value 5 kVA • up to 500 V for current peak value n=20 rated value 5 kVA • up to 500 V for current peak value n=20 rated value 5 kVA • up to 500 V for current peak value n=30 rated value 5 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.4 kVA • up to 600 V for current peak value n=30 rated value 1.4 kVA • up to 600 V for current peak value n=30 rated value 4 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current maximum 115 A: Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 15 A: Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero curren | | |
| operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2 kW • at 680 V rated value 2.5 kW operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 2 kVA • up to 500 V for current peak value n=20 rated value 4 kVA • up to 500 V for current peak value n=20 rated value 5 kVA • up to 500 V for current peak value n=20 rated value 5 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4.4 VVA • up to 500 V for current peak value n=30 rated value 4.4 VVA • up to 500 V for current peak value n=30 rated value 4.4 VVA • up to 500 V for current peak value n=30 rated value 4.4 VVA • up to 500 V for current maximum 115 S.4 Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 105 A; Use minimum cross-section acc. to AC-1 rated value • limitet to 30 s switching at zero current maximum< | | |
| A to V rated value at 400 V rated value at 600 V rated value at 600 V rated value 2 kW 2 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 2 kVA vup to 500 V for current peak value n=20 rated value 4 kVA vup to 500 V for current peak value n=20 rated value 4 kVA vup to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a vup to 230 V for current peak value n=30 rated value 5.9 kVA operating apparent power at AC-6a vup to 500 V for current peak value n=30 rated value 4.5 kVA vup to 500 V for current peak value n=30 rated value 4.5 kVA vup to 500 V for current peak value n=30 rated value 4.5 kVA vup to 500 V for current peak value n=30 rated value 4.5 kVA vup to 500 V for current peak value n=30 rated value 4.5 kVA vup to 500 V for current peak value n=30 rated value 4.5 kVA vup to 500 V for current peak value n=30 rated value 4.5 kVA vup to 500 V for current peak value n=30 rated value 4.5 kVA vup to 500 V for current peak value n=30 rated value 4.5 kVA short-time withstand current in cold operating state up to 40 °C vitic to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum vilimited to 50 s switching at zero current maximum vilimited to 50 s switching at zero current maximum si limited to 50 s switching at zero current maximum vilimited to 50 s switching at zero current maximum vilimited to 50 s switching at zero current maximum vilimited to 50 s switching at zero current maximum vilimited to 60 s switching at zero current maximum vilimited to 60 s switching at zero current maximum vilimited to 60 s switching at zero current maximum vilimited to 60 s switching at zero current maximum vilimited to 60 s switching at zero current maximum vilimited to 60 s switching at zero current maximum | | |
| • at 690 V rated value 2.5 kW operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 9.8 kVA • up to 500 V for current peak value n=30 rated value 5.9 kVA operating apparent power at AC-6a 9.8 kVA • up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA short-time withstand current in cold operating state up to 40 °C 4 kVA short-time withstand current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 15 s witching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 S switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 S switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value operating frequency 10000 | | |
| operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 2 kVA • up to 500 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 200 V for current peak value n=30 rated value 2.4 kVA • up to 400 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4. kVA • up to 500 V for current peak value n=30 rated value 4. kVA • up to 500 V for current peak value n=30 rated value 4. kVA • up to 500 V for current peak value n=30 rated value 4. kVA • up to 500 V for current ne peak value n=30 rated value 4. kVA • up to 500 V for current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • et | • at 400 V rated value | 2 kW |
| • up to 230 V for current peak value n=20 rated value 2 kVA 4 up to 500 V for current peak value n=20 rated value 3.6 kVA 4 up to 500 V for current peak value n=20 rated value 4.6 kVA 4 up to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value 1.3 kVA up to 500 V for current peak value n=30 rated value 1.3 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA 4.7 up to 500 V for current peak value n=30 rated value 4.6 LVA 4.8 up to 690 V for current peak value n=30 rated value 4.6 VA 4.8 up to 690 V for current peak value n=30 rated value 4.6 Use minimum cross-section acc. to AC-1 rated value ilimited to 1 s switching at zero current maximum ilimited to 50 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value ilimited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value ilimited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value ilimited to 60 s switching at zero current maximum for 10 000 1/h operating frequency et at AC 10 000 1/h et at AC-3 maximum for 1/h et AC-4 maximum for 0/H et A | • at 690 V rated value | 2.5 kW |
| • up to 400 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 5.9 kVA • up to 630 V for current peak value n=20 rated value 5.9 kVA • up to 300 V for current peak value n=30 rated value 1.3 kVA • up to 400 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.3 kVA • up to 600 V for current peak value n=30 rated value 1.55 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc. to AC-1 rated value 1.11 A; Use minimum cross-section acc | operating apparent power at AC-6a | |
| up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 1.3 kVA up to 500 V for current peak value n=30 rated value 2.4 kVA up to 690 V for current peak value n=30 rated value 3.1 kVA up to 690 V for current peak value n=30 rated value 3.1 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum fimited to 3 s switching at zero current maximum fimited to 30 s switching at zero current maximum fimited to 30 s switching at zero current maximum fimited to 50 s switching at zero current maximum fimited to 60 s switching at zero current maximum for 4. Use minimum cross-section acc. to AC-1 rated value for 4.0 °C at AC-1 maximum at AC-1 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum bype of voltage of the control supply voltage AC control supply voltage at AC at AC bype of voltage of the control supply voltage rated value for V operating frage factor control supply voltage rated value for V operating range factor control supply voltage rated value for V operating range factor control supply voltage rated value for V | • up to 230 V for current peak value n=20 rated value | 2 kVA |
| up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 1.3 kVA up to 500 V for current peak value n=30 rated value 2.4 kVA up to 690 V for current peak value n=30 rated value 3.1 kVA up to 690 V for current peak value n=30 rated value 3.1 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum fimited to 3 s switching at zero current maximum fimited to 30 s switching at zero current maximum fimited to 30 s switching at zero current maximum fimited to 50 s switching at zero current maximum fimited to 60 s switching at zero current maximum for 4. Use minimum cross-section acc. to AC-1 rated value for 4.0 °C at AC-1 maximum at AC-1 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum bype of voltage of the control supply voltage AC control supply voltage at AC at AC bype of voltage of the control supply voltage rated value for V operating frage factor control supply voltage rated value for V operating range factor control supply voltage rated value for V operating range factor control supply voltage rated value for V | • up to 400 V for current peak value n=20 rated value | 3.6 kVA |
| • up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 230 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 690 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C 4 kVA • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h operating frequency • at AC-1 maximum • at AC-1 maximum 1000 1/h • at AC-3 maximum 750 1/h < | | 4.6 kVA |
| operating apparent power at AC-6a 1.3 kVA • up to 230 V for current peak value n=30 rated value 1.3 kVA • up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 690 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C 4 kVA • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h operating frequency 10 000 1/h • at AC-3 maximum 1000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 250 1/h Control circ | | 5.9 kVA |
| • up to 230 V for current peak value n=30 rated value 1.3 kVA • up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 600 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C 4 kVA • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 00 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h 10 000 1/h operating frequency 10 000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h | | |
| • up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C 4 kVA • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 6A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 6A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 6A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 6A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 5A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h operating frequency 10 000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 250 1/h Control circuit/ Control KC Control circuit/ Co | | 1.3 kVA |
| up to 500 V for current peak value n=30 rated value 3.1 kVA up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40°C limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching frequency et AC 10 000 1/h operating frequency et AC-4 maximum to 001 1/h et AC-4 maximum to 001 1/h et AC-4 maximum to 000 1/h to 000 1/h et AC-4 maximum to 000 1/h to 000 1/h et AC-4 maximum to 000 1/h to 000 1 | | 2.4 kVA |
| • up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h operating frequency 10 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 250 1/h Control supply voltage at AC 600 V • at 60 Hz rated value 600 V • operating range factor co | | |
| short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum ilmited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 30 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 0000 1/h operating frequency 10000 1/h e at AC-1 maximum 1 000 1/h e at AC-3 maximum 750 1/h e at AC-3 maximum 250 1/h Control circuit/ Control 250 1/h type of voltage of the control supply voltage AC e at 60 Hz rated value 600 V operating range factor control supply voltage rated value of magnet coil at AC 600 V | | |
| 40 °C • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 61 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control Image at AC type of voltage of the control supply voltage AC • at 60 Hz rated v | | |
| • limited to 5 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • at AC 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h • control supply voltage at AC 600 V • at 60 Hz rated value 600 V • operating range factor control supply voltage rated value of magnet coil | | |
| • limited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h operating frequency 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 600 V • at 60 Hz rated value 600 V • at 60 Hz rated value 600 V | limited to 1 s switching at zero current maximum | 155 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10 000 1/h • at AC 10 000 1/h operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control Ko type of voltage of the control supply voltage AC • at 60 Hz rated value 600 V operating range factor control supply voltage rated value of magnet coil at AC 600 V | limited to 5 s switching at zero current maximum | 111 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10 000 1/h • at AC 10 000 1/h operating frequency - • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 600 V operating range factor control supply voltage rated value of magnet coil at AC 600 V | limited to 10 s switching at zero current maximum | 86 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency 10 000 1/h operating frequency - • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h Control circuit/ Control 250 1/h type of voltage of the control supply voltage AC • at 60 Hz rated value 600 V operating range factor control supply voltage rated value of magnet coil at AC 600 V | limited to 30 s switching at zero current maximum | 66 A; Use minimum cross-section acc. to AC-1 rated value |
| • at AC10 000 1/hoperating frequency1• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 60 Hz rated value600 Voperating range factor control supply voltage rated value of magnet coil at AC600 V | limited to 60 s switching at zero current maximum | 55 A; Use minimum cross-section acc. to AC-1 rated value |
| operating frequencyI• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlVtype of voltage of the control supply voltageAC• at 60 Hz rated value600 V• at 60 Hz rated value600 V | no-load switching frequency | |
| • at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlACcontrol supply voltage of the control supply voltageAC• at 60 Hz rated value600 Voperating range factor control supply voltage rated value of magnet coil at ACImage: Control supply voltage rated value of magnet coil at AC | • at AC | 10 000 1/h |
| • at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltageACACcontrol supply voltage at AC600 V• at 60 Hz rated value600 Voperating range factor control supply voltage rated value of magnet coil at AC | operating frequency | |
| • at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ Control250 1/htype of voltage of the control supply voltageAC• at 60 Hz rated value600 V• operating range factor control supply voltage rated value of magnet coil at AC | • at AC-1 maximum | 1 000 1/h |
| • at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ Control250 1/htype of voltage of the control supply voltageACcontrol supply voltage at AC600 V• at 60 Hz rated value600 Voperating range factor control supply voltage rated value of magnet coil at AC600 V | • at AC-2 maximum | 750 1/h |
| • at AC-4 maximum 250 1/h Control circuit/ Control AC type of voltage of the control supply voltage AC control supply voltage at AC 600 V • at 60 Hz rated value 600 V operating range factor control supply voltage rated value of magnet coil at AC 600 V | ● at AC-3 maximum | 750 1/h |
| Control circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC 600 V • at 60 Hz rated value 600 V operating range factor control supply voltage rated value of magnet coil at AC 600 V | • at AC-3e maximum | 750 1/h |
| Control circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC 600 V • at 60 Hz rated value 600 V operating range factor control supply voltage rated value of magnet coil at AC 600 V | • at AC-4 maximum | 250 1/h |
| type of voltage of the control supply voltage AC control supply voltage at AC 600 V • at 60 Hz rated value 600 V operating range factor control supply voltage rated value of magnet coil at AC 600 V | | |
| control supply voltage at AC 600 V • at 60 Hz rated value 600 V operating range factor control supply voltage rated value of magnet coil at AC 600 V | | AC |
| • at 60 Hz rated value 600 V operating range factor control supply voltage rated value of magnet coil at AC | | |
| operating range factor control supply voltage rated value of magnet coil at AC | | 600 V |
| magnet coil at AC | | |
| • at 60 Hz 0.85 1.1 | | |
| | ● at 60 Hz | 0.85 1.1 |

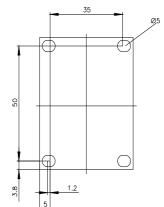
| | _ |
|---|---|
| apparent pick-up power of magnet coil at AC | |
| • at 60 Hz | 31.7 VA |
| inductive power factor with closing power of the coil | |
| • at 60 Hz | 0.81 |
| apparent holding power of magnet coil at AC | |
| ● at 60 Hz | 4.8 VA |
| inductive power factor with the holding power of the coil | |
| • at 60 Hz | 0.25 |
| 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 | |
| number of NO contacts for auxiliary contacts instantaneous contact | 1 |
| operational current at AC-12 maximum | 10 A |
| operational 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 |
| operational 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 |
| operational 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 3-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 3-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 | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| — with type of assignment 2 required | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| | |

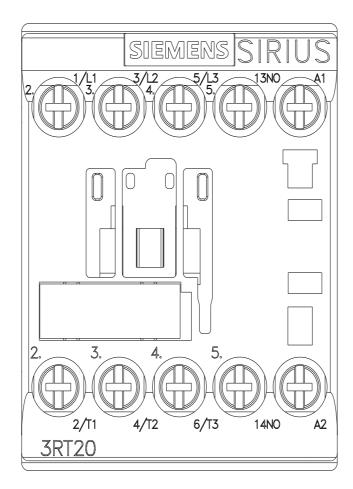
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
|---|--|
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| side-by-side mounting | Yes |
| height | 58 mm |
| width | 45 mm |
| depth | 73 mm |
| required spacing | 75 mm |
| 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 | screw-type terminals |
| for auxiliary and control circuit | screw-type terminals |
| at contactor for auxiliary contacts | Screw-type terminals |
| of magnet coil | 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 |
| solid or stranded | 2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ² |
| finely stranded with core end processing | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) |
| 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 |
| 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 |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid or 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 mm ²), 2x (0.75 2.5 mm ²) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 2x 12 |
| AWG number as coded connectable conductor cross | |
| section | |
| • for main contacts | 20 12 |
| for auxiliary contacts | 20 12 |
| Safety related data | |
| product function | |
| mirror contact according to IEC 60047.4.1 | Yes; with 3RH29 |
| mirror contact according to IEC 60947-4-1 | 1 000 000 |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| B10 value with high demand rate according to SN 31920 proportion of dangerous failures | |
| B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 | 40 % |
| B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 | 40 % 73 % |
| B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 | 40 % 73 % 100 FIT |
| B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 | 40 % 73 % |



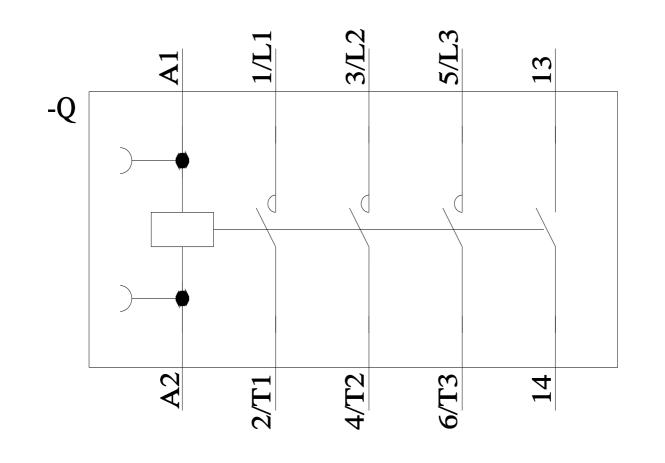








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