SIEMENS

Data sheet

3RT2017-2AP02



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00

| and the state | |
|---|----------------------------|
| 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 | 1.5 W |
| at AC in hot operating state per pole | 0.5 W |
| without load current share typical | 1.5 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 | 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 |
| 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 |

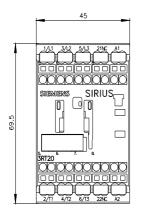
| number of NO contacts for main contacts | 3 |
|---|-------------------|
| operating voltage | |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| • at AC-1 at 400 V at ambient temperature 40 °C rated | 22 A |
| value | |
| • at AC-1 | |
| — 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 | 12 A |
| — at 500 V rated value | 9.2 A |
| — at 690 V rated value | 6.7 A |
| ● at AC-3e | |
| — at 400 V rated value | 12 A |
| — at 500 V rated value | 9.2 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 | 9.9 A |
| ● at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 7.2 A |
| — up to 400 V for current peak value n=20 rated value | 7.2 A |
| — up to 500 V for current peak value n=20 rated value | 7.2 A |
| — up to 690 V for current peak value n=20 rated value | 6.7 A |
| ● at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 4.8 A |
| — up to 400 V for current peak value n=30 rated value | 4.8 A |
| — up to 500 V for current peak value n=30 rated value | 4.8 A |
| — up to 690 V for current peak value n=30 rated value | 4.8 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 | |
| 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 | |
| | |

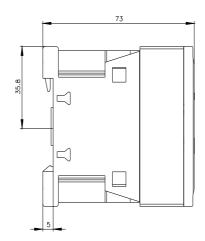
| | — at 24 V rated value | 20 A |
|---|--|---|
| • with 2 current paths in series at DC-3 at DC-5 20 A - at 24 V rates value 20 A - at 10 V rates value 20 A - at 110 V rates value 20 A - at 24 V rates value 20 A - at 240 V rates value 22 A - at 240 V rates value 25 KW - at 250 V rates value 25 KW - at 400 V rates value 26 KW - at 600 V rates value 26 KW | | |
| - # 29 V ratio value 20 Å - # 10 V ratio value 0.36 Å - # 110 V ratio value 20 Å - # 120 V ratio value 20 Å - # 10 V ratio value 22 Å - # 100 V ratio value 22 Å - # 100 V ratio value 55 kW - # 100 V ratio value 25 kW - # 100 V ratio value 25 kW - # 100 V ratio value 25 kW - # 100 V ratio value 28 kVA - # 100 V ratio value 28 kVA - # 100 V ratio value 18 kVA< | — 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-520 A- at 24 V rated value20 A- at 40 V rated value20 A- at 410 V rated value20 A- at 440 V rated value0.2 A- at 440 V rated value0.2 A- at 400 V rated value0.2 A- at 400 V rated value0.2 A- at 400 V rated value0.2 A- at 600 V rated value5.5 kW- at 600 V rated value5.7 kW- at 600 V rated value6.5 kW- at 600 V rated value6.5 kW- at 600 V rated value6.5 kW- at 600 V rated value7.7 kW- at 600 V rated value7.7 kW </td <td>— at 60 V rated value</td> <td>5 A</td> | — at 60 V rated value | 5 A |
| | — 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 it AC-3 It AC-3 It AC-4 It AC-4 | — at 440 V rated value | 0.2 A |
| • at 2C-3 - at 230 V rated value 3 kW - at 200 V rated value 55 kW - at 500 V rated value 55 kW - at 230 V rated value 55 kW - at 230 V rated value 55 kW - at 200 V rated value 55 kW - at 500 V rated value 55 kW - at 500 V rated value 55 kW - at 600 V rated value 55 kW operating power for approx. 20000 operating cycles at AC-5 56 kW • up to 500 V for current pack value n=20 rated value 25 kW operating apparent power at AC-68 50 kVA • up to 600 V for current pack value n=20 rated value 33 kVA • up to 500 V for current pack value n=30 rated value 33 kVA • up to 600 V for current pack value n=30 rated value 33 kVA • up to 600 V for curr | — at 600 V rated value | 0.2 A |
| | operating power | |
| | • at AC-3 | |
| | — at 230 V rated value | 3 kW |
| | — at 400 V rated value | 5.5 kW |
| • at AC-3e 3 kW at 230 V rated value 3 kW at 600 V rated value 5.5 kW at 690 V rated value 5.5 kW at 690 V rated value 5.5 kW operating power for approx. 200000 operating cycles at AC-4 2 kW • at 400 V rated value 2 kW • at 400 V rated value 2 kW • at 400 V rated value 2 kW • at 600 V for current peak value n=20 rated value 4.9 kVA • up to 500 V for current peak value n=20 rated value 4.9 kVA • up to 600 V for current peak value n=20 rated value 8 kVA • up to 600 V for current peak value n=30 rated value 8 kVA • up to 600 V for current peak value n=30 rated value 3.3 kVA • up to 600 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 60 °C 7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value | — at 500 V rated value | 5.5 kW |
| | — at 690 V rated value | 5.5 kW |
| | • at AC-3e | |
| | — at 230 V rated value | 3 kW |
| | — at 400 V rated value | 5.5 kW |
| operating power for approx. 20000 operating cycles at AC-4 2 • at 400 V rated value 2.5 kW operating apparent power at AC-6a 2.5 kW • up to 230 V for current peak value n=20 rated value 2.8 kVA • up to 230 V for current peak value n=20 rated value 4.9 kVA • up to 560 V for current peak value n=20 rated value 6.2 kVA • up to 560 V for current peak value n=30 rated value 8 kVA operating apparent power at AC-6a 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA Short-line withstand current in cold operating state up to 50° 60° c° • limited to 5 s witching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s witching at zero current maximum 51 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 51 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 10 000 1/h • at AC-4 maximum 10000 1/h • at AC-4 maximum 750 1/h • at AC-4 maxim | — at 500 V rated value | 5.5 kW |
| A the first of the first o | — at 690 V rated value | 5.5 kW |
| • at 400 V rated value 2 kW • at 690 V rated value 2.5 kW operating apparent power at AC-6a 2.8 kVA • up to 530 V for current peak value n=20 rated value 4.8 kVA • up to 500 V for current peak value n=20 rated value 6.2 kVA • up to 500 V for current peak value n=20 rated value 6.2 kVA • up to 500 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6a 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 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 4.1 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 400 V for current peak value n=30 rated value 5.7 kVA short-time withstand current maximum 200 A: Use minimum cross-section acc. to AC-1 rated value • limited to 1 s witching at zero current maximum 64 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s witching at zero current maximum 64 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s witching at zero current maximum 64 A: Use minimum cross-section acc. to AC-1 rated value • at AC-1 maxim | | |
| • at 680 V rated value 2.5 kW operating apparent power at AC-6a 2.8 kVA • up to 230 V for current peak value n=20 rated value 4.9 kVA • up to 500 V for current peak value n=20 rated value 6.2 kVA • up to 500 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6a 8 kVA • up to 500 V for current peak value n=30 rated value 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 600 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40° V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40° C 20° A: Use minimum cross-section acc. to AC-1 rated value • limited to 1s switching at zero current maximum 20 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 6 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 61 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 61 A: Use minimum cross-section acc. to AC-1 rated value • at AC-2 maximum< | | 0.194 |
| operating apparent power at AC-6a 2.8 kVA • up to 230 V for current peak value n=20 rated value 4.9 kVA • up to 500 V for current peak value n=20 rated value 5.2 kVA • up to 650 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6a 1.9 kVA • up to 500 V for current peak value n=30 rated value 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40° C 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • at AC-1 maximum 100 001/h • at AC-2 maximum 750 1/h | | |
| • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current neak mum • limited to 1s switching at zero current maximum • limited to 1s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current ma | | 2.5 KW |
| • up to 400 V for current peak value n=20 rated value 4.9 kVA • up to 500 V for current peak value n=20 rated value 6.2 kVA • up to 500 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6 1.9 kVA • up to 500 V for current peak value n=30 rated value 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40°C 6.0 kP or current maximum • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 10 000 1/h • limited to 50 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 10 000 1/h • dorec 10 000 1/h • da AC-1 10 000 1/h • at AC-1 10 000 1/h • at AC-3 maximum 750 1/h <td></td> <td>0.011/4</td> | | 0.011/4 |
| • up to 500 V for current peak value n=20 rated value • up to 620 V for current peak value n=20 rated value 8 kVA 9 erating apparent power at AC-6 • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • Up to 500 V for current peak value n=30 rated value • Up to 500 V for current peak value n=30 rated value • Up to 500 V for current peak value n=30 rated value • Up to 500 V for current peak value n=30 rated value • Up to 500 V for current peak value n=30 rated value • Up to 500 V for current peak value n=30 rated value • Iimited to 1 s switching at zero current maximum • Iimited to 5 s switching at zero current maximum • Iimited to 60 s switching at zero current maximum • Iimited to 60 s switching at zero current maximum • I a AC • 10 000 1/h • at AC • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum | | |
| • up to 690 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-Ga 1.9 kVA • up to 230 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 590 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40 °C 5.7 kVA • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 61 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 • at AC- 10 000 1/h • at AC- 10 000 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 | | |
| operating apparent power at AC-6a 1.9 kVA • up to 230 V for current peak value n=30 rated value 1.9 kVA • up to 400 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40°C 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 96 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 • limited to 60 s switching at zero current maximum 61 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 • at AC 10 000 1/h • at AC-1 maximum 1 000 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 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA 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 • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 20 switch | | 8 KVA |
| • up to 400 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40 °C imited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 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 • limited to 60 s switching at zero current maximum 74 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 • operating frequency • • • at AC-1 maximum 10000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 250 1/h Control circuit/ Control XC type of voltage of t | | |
| • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40 °C 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 96 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 • limited to 60 s switching at zero current maximum 74 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 • limited to 60 s switching at zero current maximum 74 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 • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h 000 1/h • at AC-3 maximum 1 000 1/h • at AC-3 maximum <t< td=""><td></td><td></td></t<> | | |
| • up to 690 V for current peak value n=30 rated value5.7 kVAshort-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum123 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum96 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum96 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• at AC10 000 1/hoperating frequency100 00 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum230 V• at AC value230 V• at AC value230 V• at AC value230 V• at AC value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V | | |
| short-time withstand current in cold operating state up to 40 °C 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 74 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 • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • at AC-1 maximum 1000 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 AC type of voltage of the control supply voltage AC • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value <td< td=""><td></td><td></td></td<> | | |
| 40 °C • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 74 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 • limited to 60 s switching at zero current maximum 74 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 • limited to 60 s switching at zero current maximum 74 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 • at AC 0 000 1/h 10 000 1/h • at AC 10 000 1/h 100 01/h • at AC-3 maximum 750 1/h 1/h • at AC-3 maximum 750 1/h 1/h • at AC-4 maximum 250 1/h 1/h Control circuit/ Control 230 V 230 V <td>· · · · ·</td> <td>5.7 KVA</td> | · · · · · | 5.7 KVA |
| Imiled to 1 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 5 s switching at zero current maximum123 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 10 s switching at zero current maximum96 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 30 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated valueImiled to 61 s de acc10 000 1/hImiled to 62 maximum1000 1/hImiled to 62 maximum750 1/hImiled to 61 crucit / Control250 1/hImiled to 61 crucit / Control250 1/hImiled to 61 crucit / Control230 VImiled to 61 d AC230 VImiled to all a AC230 VImile | | |
| • limited to 5 s switching at zero current maximum123 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum96 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency61 A; Use minimum cross-section acc. to AC-1 rated value• at AC10 000 1/hoperating frequency10 000 1/h• 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-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum230 V• at 50 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V | | 200 A: Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value limited to 30 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value at AC 10 000 1/h operating frequency at AC-1 maximum 1 000 1/h at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 1/h at AC-3 maximum 750 1/h at AC-3 maximum at AC-3 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage AC at 50 Hz rated value 230 V at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC | 0 | |
| • limited to 30 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 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 V type of voltage of the control supply voltage AC • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value 230 V | - | |
| • limited to 60 s switching at zero current maximum 61 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-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control XC type of voltage of the control supply voltage AC • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value 230 V | - | |
| no-load switching frequency10 000 1/hoperating frequency-at AC-1 maximum1 000 1/hat AC-2 maximum750 1/hat AC-3 maximum750 1/hat AC-3e maximum750 1/hat AC-3e maximum750 1/hat AC-3e maximum250 1/hat AC-4 maximum250 1/hcontrol circuit/ Control | - | |
| • at AC10 000 1/hoperating frequency·• 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 maximum230 V• at 50 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V | | |
| 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-3e maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltageAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V | | 10 000 1/h |
| • 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 maximum230 V• at 50 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V | | |
| • 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/hControl circuit/ ControlACControl supply voltage at ACAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• operating range factor control supply voltage rated value of magnet coil at ACState Control Supply voltage rated value of magnet coil at AC | | 1 000 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/ ControlControl circuit/ Controltype of voltage of the control supply voltageAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• operating range factor control supply voltage rated value of magnet coil at ACControl circuit/ Control | | |
| • 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 AC230 V• at 50 Hz rated value230 V• at 60 Hz rated value230 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-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 230 V • at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC | | |
| Control circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC 230 V • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC | | |
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| • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC | | |
| • at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC | | 230 V |
| operating range factor control supply voltage rated value of magnet coil at AC | | |
| • at 50 Hz 0.8 1.1 | operating range factor control supply voltage rated value of | |
| | ● at 50 Hz | 0.8 1.1 |

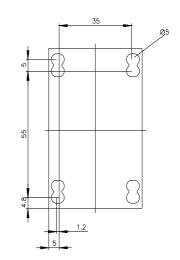
| • at 60 Hz | 0.85 1.1 |
|--|---|
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 37 VA |
| • at 60 Hz | 33 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.8 |
| • at 60 Hz | 0.75 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 5.7 VA |
| • at 60 Hz | 4.4 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.25 |
| • 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 NC contacts for auxiliary contacts instantaneous | 1 |
| contact | |
| 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 | 11 A |
| • at 600 V rated value | 11 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.5 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 | 3 hp |
| — at 460/480 V rated value | 7.5 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 fuse link | |
| | |

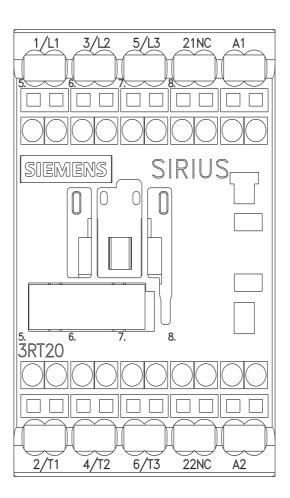
| • for short-circuit protection of the main circuit | |
|---|--|
| - with type of coordination 1 required | gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| — with type of assignment 2 required | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) |
| for short-circuit 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 | 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 mm ²) |
| finely stranded with core end processing | 2x (0.5 2.5 mm ²) |
| finely stranded without core end processing | 2x (0.5 2.5 mm ²) |
| connectable conductor cross-section for main contacts | |
| • solid | 0.5 4 mm² |
| stranded | 0.5 4 mm ² |
| finely stranded with core end processing | 0.5 2.5 mm ² |
| finely stranded with one one processing | 0.5 2.5 mm ² |
| connectable conductor cross-section for auxiliary contacts | |
| solid or stranded | 0.5 4 mm² |
| finely stranded with core end processing | 0.5 2.5 mm ² |
| finely stranded with one end processing finely stranded without core end processing | 0.5 2.5 mm ² |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| - solid or stranded | 2x (0,5 4 mm²) |
| — finely stranded with core end processing | 2x (0,5 2.5 mm ²) |
| finely stranded with core end processing finely stranded without core end processing | 2x (0.5 2.5 mm ²) |
| for AWG cables for auxiliary contacts | 2x (20 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 60947-4-1 | Yes |
| | |

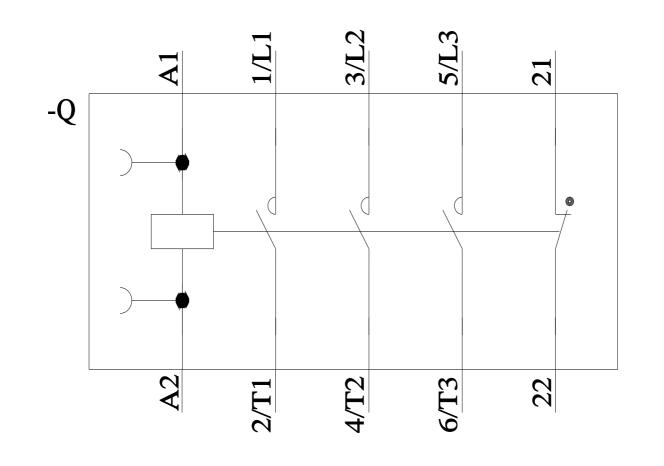
| - | ty-related switching OFF | Yes | | | |
|--|---|--|--|---|---|
| | emand rate according to SI | N 31920 1 000 | 000 | | |
| proportion of danger | | | | | |
| | d rate according to SN 319 | | | | |
| with high demand rate according to SN 31920 | | | - | | |
| | ow demand rate according | | IT | | |
| F1 value for proof test 61508 | interval or service life acco | ording to IEC 20 a | | | |
| | n the front according to | IEC 60529 IP20 | | | |
| | the front according to IE | | -safe, for vertical contac | t from the front | |
| ertificates/ approvals | | iniger | sale, for vertical contac | | |
| General Product Ap | | | | | |
| SP SA | | <u>Confirmation</u> | | KC | EHC |
| EMC | Functional Safety/Safety of Ma- chinery | Declaration of Conform | nity | Test Certificates | |
| | <u>Type Examination Cer-</u> tificate | UK CA | CE EG-Konf. | <u>Special Test Certific-</u> <u>ate</u> | <u>Type Test Certific</u> ates/Test Report |
| /larine / Shipping | | | | | |
| ABS | BUREAU VERITAS | | Lloyd's Register | PRS | RINA |
| Marine / Shipping | other | | | Railway | Environment |
| KARS | <u>Confirmation</u> | | Confirmation | Vibration and Shock | Environmental Con firmations |
| rther information | to avit the Pussian man | kat (saa bara) | | | |
| JEDUEUS DAS DECIDA(| d to exit the Russian mar | ' <mark>ket (see nere).</mark> <u>e/siemens-wind-down-russ</u> | ian-business | | |
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