SIEMENS

Data sheet

3RT2027-2AB00



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

| product brand name SIRUS product designation Power contactor product type designation SRT2 canazit tachnical data S0 product vatension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.3 W • at AC in hot operating state 6.3 W • at AC in hot operating state per pole 2.3 W • without load current share typical 9.8 W insultation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 10 00 V <td< th=""><th>and a last</th><th></th></td<> | and a last | |
|--|---|----------------------------|
| product type designation 3RT2 General technical data | product brand name | SIRIUS |
| General technical data S0 size of contactor S0 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 6.3 W • at AC in hot operating state 6.3 W 2.3 W • without load current share typical 9.8 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 680 V • of main circuit rated value 64V • of main circuit rated value 64V • of auxiliary circuit rate value 64V • of auxiliary circuit rate value 64V • of auxiliary circuit rate value 64V • of diaconator with added electronically optimized auxiliary switch block typical 10000 000 • of the contactor with added auxiliary switch block typical 10000 000 • of the contactor | product designation | Power contactor |
| size of contactor S0 product extension • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current 6.3 W • at AC in hot operating state per pole 2.3 W • without load current share typical 9.8 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64V • of main circuit with degree of pollution 3 rated value 64V • of auxiliary circuit rated value 64V • of auxiliary souths ine pulse 6100 V • at AC 8.3g / 5 ms, 5.3g / 10 ms mechanical service Iffe (operating cycles) 10 000 000 • of the contactor with added electronically optimized | product type designation | 3RT2 |
| product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.3 W • at AC in hot operating state per pole 2.3 W • without load current share typical 9.8 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main ling vicinit with degree of pollution 3 rated value 690 V • of main ling vicinit with degree of pollution 3 rated value 64V • of main ling vicinit with degree of pollution 3 rated value 64V • of main ling vicinit with degree of pollution 3 rated value 64V • of main ling vicinit with degree of pollution 3 rated value 64V • of main ling vicinit rated value 64V • of main ling vicinit rated value 64V • of main ling vicinit rated value 64V • of auxiliary circuit rated value 64V • at AC 13,5g / 5 ms, 8,3g / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 reference cod according to IEC 81346-2 | General technical data | |
| • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.3 W • at AC in hot operating state 6.3 W • at AC in hot operating state per pole 2.3 W • without load current share typical 9.8 W Insulation voitage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit and value 6 kV • of auxiliary circuit rated value 6 kV • at AC 8.3g / 5 ms, 5.3g / 10 ms shock resistance with sine pulse 6 auxiliary switch hole kypical • at AC 13.5g / 5 ms, 8.3g / 10 ms machator typical 10 000 000 • of the contactor whid aded auxiliary switch block typical 10 000 000 • of the contactor whid aded auxiliary switch block typical 10 000 000 <th>size of contactor</th> <th>S0</th> | size of contactor | S0 |
| • auxiliary switch Yes power loss [W] for rated value of the current 6.3 W • at AC in hot operating state per pole 2.3 W • without load current share typical 9.8 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV shock resistance at rectangular impulse 400 V • at AC 13.5g / 5 ms, 5.3g / 10 ms shock resistance with added electronically optimized 3.00 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor wi | product extension | |
| power loss [W] for rated value of the current 6.3 W e It AC in hot operating state per pole 2.3 W • without load current share typical 9.8 W Insulation voltage 690 V • 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 6 kV • of main circuit with degree of pollution 5 rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 8.3g / 5 ms, 5.3g / 10 ms shock resistance at rectangular impulse 13.5g / 5 ms, 8.3g / 10 ms • at AC 13.5g / 5 ms, 8.3g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10/00 1/2009 < | function module for communication | No |
| • at AC in hot operating state 6.3 W • at AC in hot operating state per pole 2.3 W • without load current share typical 9.8 W insultation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • at AC 8.3g / 5 ms, 5.3g / 10 ms shock resistance with sine pulse 13.5g / 5 ms, 8.3g / 10 ms • at AC 13.5g / 5 ms, 8.3g / 10 ms • of contactor typical 10 000 000 • of the contactor with added electronically optimized 2000 00 • auxiliary switch block typical 10 000 000 | auxiliary switch | Yes |
| • at AC in hot operating state per pole 2.3 W • withbut load current share typical 9.8 W insulation voltage 60 min circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 64 KV • of main circuit with degree of pollution 3 rated value 68 V • of auxiliary circuit rated value 6 kV • at AC 8.3g / 5 ms, 5.3g / 10 ms shock resistance with sine pulse 13.5g / 5 ms, 8.3g / 10 ms • at AC 13.5g / 5 ms, 8.3g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (D | power loss [W] for rated value of the current | |
| • without load current share typical 9.8 W insulation voltage 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • of main circuit with degree of pollution 3 rated value 680 V surge voltage resistance 6 kV • of auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • at AC 8.3g / 5 ms, 5.3g / 10 ms • at AC 13.5g / 5 ms, 8.3g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 1001/2009 Ambient conditions -25 +60 °C | at AC in hot operating state | 6.3 W |
| Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • 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 8.3g / 5 ms, 5.3g / 10 ms • at AC 8.3g / 5 ms, 8.3g / 10 ms shock resistance with sine pulse 13.5g / 5 ms, 8.3g / 10 ms • at AC 13.5g / 5 ms, 8.3g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient temperature - • during storage -25 +60 °C • during storage -25 +60 °C • during storage -25 +60 °C • during | at AC in hot operating state per pole | 2.3 W |
| • 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 6 • of main 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 8,3g / 5 ms, 5,3g / 10 ms • at AC 8,3g / 5 ms, 8,3g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 0 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions -25 +60 °C • during speration -25 +60 °C • during storage -55 +60 °C • falt | without load current share typical | 9.8 W |
| • of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • 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 6 kJ • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary witch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 Amblent conditions 2 000 m installation altitude at height above sea level maximum 2 000 m amblent temperature -450 °C • during operation -25 +60 °C • during storage -55 +80 °C | insulation voltage | |
| surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 6 kJ • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse - • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 10 000 000 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m • during operation -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit Main circuit | of main circuit with degree of pollution 3 rated value | 690 V |
| • 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 400 V • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 8,3g / 5 ms, 8,3g / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor typical 5 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • 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 2000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minum 10 % 95 % 95 % | of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| • 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 400 V • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse - • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) - • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % 95 % 95 % | surge voltage resistance | |
| maximum permissible voltage for protective separation between 400 V coil and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 8,3g / 5 ms, 5,3g / 10 ms • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 000000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • 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 Amblent conditions 2 000 m installation altitude at height above sea level maximum 2 000 m amblent temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % 95 % 95 % | of main circuit rated value | 6 kV |
| coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor is according to IEC 81346-2 Q Substance Prohibitance (Date) Installation altitude at height above sea level maximum aduing operation • during operation • during storage • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 Main circuit | of auxiliary circuit rated value | 6 kV |
| • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 0 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit | | 400 V |
| shock resistance with sine pulse i3,5g / 5 ms, 8,3g / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) i0 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 95 % Main circuit Main circuit | shock resistance at rectangular impulse | |
| • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 0 000 000 • of contactor typical 10 000 000 • 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 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit Main circuit | • at AC | 8,3g / 5 ms, 5,3g / 10 ms |
| mechanical service life (operating cycles) 10 000 000 • of contactor typical 10 000 000 • 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 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 95 % Main circuit Main circuit | shock resistance with sine pulse | |
| of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor typical the contactor typical the contactor typ | ● at AC | 13,5g / 5 ms, 8,3g / 10 ms |
| of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical 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 eduring storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit | mechanical service life (operating cycles) | |
| auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % Main circuit 95 % | of contactor typical | 10 000 000 |
| reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 % | | 5 000 000 |
| Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 0 00 m • 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 10 | of the contactor with added auxiliary switch block typical | 10 000 000 |
| Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 | reference code according to IEC 81346-2 | Q |
| installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 | Substance Prohibitance (Date) | 10/01/2009 |
| ambient temperature -25 +60 °C • 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 | Ambient conditions | |
| • 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 | installation altitude at height above sea level maximum | 2 000 m |
| • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit | ambient temperature | |
| relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 % | during operation | -25 +60 °C |
| relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit | during storage | -55 +80 °C |
| maximum Main circuit | relative humidity minimum | 10 % |
| | | 95 % |
| number of poles for main current circuit 3 | 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 | 50 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 50 A |
| — up to 690 V at ambient temperature 60 °C rated | 42 A |
| value | |
| ● at AC-3 | |
| — at 400 V rated value | 32 A |
| — at 500 V rated value | 32 A |
| — at 690 V rated value | 21 A |
| • at AC-3e | |
| — at 400 V rated value | 32 A |
| — at 500 V rated value | 32 A |
| — at 690 V rated value | 21 A |
| at AC-4 at 400 V rated value | 22 A |
| • at AC-5a up to 690 V rated value | 44 A |
| at AC-5b up to 400 V rated value at AC-6a | 26.5 A |
| | 30.8 A |
| — 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 | 30.8 A 27 A |
| — up to 690 V for current peak value n=20 rated value | 21 A 21 A |
| • at AC-6a | 21A |
| up to 230 V for current peak value n=30 rated value | 20.5 A |
| — up to 200 V for current peak value n=30 rated value | 20.5 A |
| — up to 500 V for current peak value n=30 rated value | 18 A |
| — up to 690 V for current peak value n=30 rated value | 18 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 10 mm ² |
| value | |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 12 A |
| at 690 V rated value | 12 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 4.5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.4 A |
| — at 600 V rated value | 0.25 A |
| • with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| — at 220 V rated value | 5 A |
| — at 440 V rated value | 1 A |
| — at 600 V rated value | 0.8 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| — at 220 V rated value | 35 A |
| — at 440 V rated value | 2.9 A |
| — at 600 V rated value | 1.4 A |
| at 1 current path at DC-3 at DC-5 | |

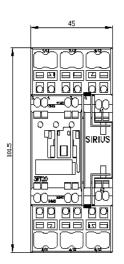
| — at 24 V rated value | 20 A |
|---|---|
| — at 60 V rated value | 5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.09 A |
| — at 600 V rated value | 0.06 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 35 A |
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 3 A |
| — at 440 V rated value | 0.27 A |
| — at 600 V rated value | 0.16 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| — at 220 V rated value | 10 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.6 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 7.5 kW |
| — at 400 V rated value | 15 kW |
| — at 500 V rated value | 15 kW |
| — at 690 V rated value | 18.5 kW |
| • at AC-3e | |
| — at 230 V rated value | 7.5 kW |
| — at 400 V rated value | 15 kW |
| — at 500 V rated value | 15 kW |
| — at 690 V rated value | 18.5 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | 0.197 |
| • at 400 V rated value | 6 kW |
| at 690 V rated value | 10.3 kW |
| operating apparent power at AC-6a | 40.011/4 |
| • up to 230 V for current peak value n=20 rated value | 12.2 kVA |
| • up to 400 V for current peak value n=20 rated value | 21.3 kVA |
| • up to 500 V for current peak value n=20 rated value | 23.3 kVA |
| • up to 690 V for current peak value n=20 rated value | 25 kVA |
| operating apparent power at AC-6a | 0.411/4 |
| • up to 230 V for current peak value n=30 rated value | 8.1 kVA |
| • up to 400 V for current peak value n=30 rated value | 14.2 kVA |
| • up to 500 V for current peak value n=30 rated value | 15.5 kVA |
| up to 690 V for current peak value n=30 rated value | 21.5 kVA |
| short-time withstand current in cold operating state up to 40 °C | |
| limited to 1 s switching at zero current maximum | 499 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 341 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 260 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 199 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 162 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| • at AC | 5 000 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-3e maximum | 750 1/h |
| | |
| | |
| • at AC-4 maximum | 250 1/h |
| | |

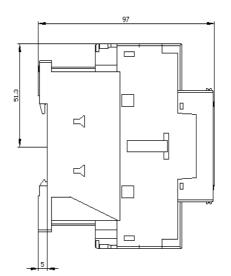
| control supply voltage at AC | 24.14 |
|---|---|
| • at 50 Hz rated value | 24 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 77 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.82 |
| apparent holding power of magnet coil at AC | 0.02 |
| • at 50 Hz | 9.8 VA |
| inductive power factor with the holding power of the coil | 0.0 V/ |
| • at 50 Hz | 0.25 |
| closing delay | |
| • at AC | 8 40 ms |
| opening delay | |
| • at AC | 4 16 ms |
| arcing time | 10 10 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts instantaneous | 1 |
| contact | |
| number of NO 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 | 1A |
| 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 | 27 A |
| at 600 V rated value | 27 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 2 hp |
| — at 230 V rated value | 5 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 10 hp |
| — at 220/230 V rated value | 10 hp |
| — at 460/480 V rated value | 20 hp |
| — at 575/600 V rated value | 25 hp |
| contact rating of auxiliary contacts according to UL | A600 / P600 |

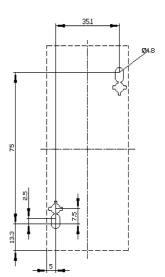
| Short-circuit protection | |
|---|---|
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) |
| - with type of assignment 2 required | gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (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 | 102 mm |
| width | 45 mm |
| depth | 97 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 (1 10 mm²) |
| solid or stranded | 2x (1 10 mm²) |
| finely stranded with core end processing | 2x (1 6 mm²) |
| finely stranded without core end processing | 2x (1 6 mm²) |
| connectable conductor cross-section for main contacts | |
| • solid | 1 10 mm² |
| stranded | 1 10 mm² |
| finely stranded with core end processing | 1 6 mm² |
| finely stranded without core end processing | 1 6 mm² |
| connectable conductor cross-section for auxiliary contacts | |
| solid or stranded | 0.5 2.5 mm² |
| finely stranded with core end processing | 0.5 1.5 mm² |
| finely stranded without core end processing | 0.5 2.5 mm² |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid or stranded | 2x (0.5 2.5 mm²) |
| finely stranded with core end processing | 2x (0.5 1.5 mm ²) |
| finely stranded without core end processing | 2x (0.5 2.5 mm ²) |
| for AWG cables for auxiliary contacts | 2x (20 14) |
| AWG number as coded connectable conductor cross section | |
| for main contacts | 18 8 |
| | |
| for auxiliary contacts | 20 14 |

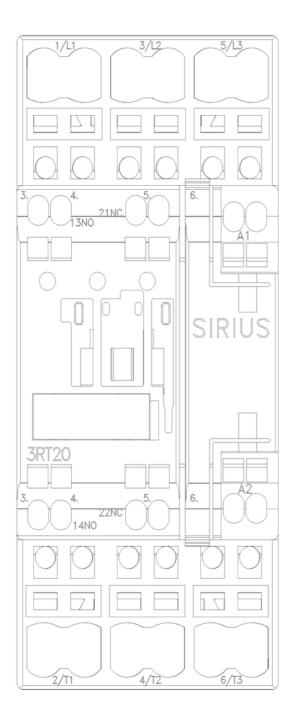
| product function | | | | | |
|--|---|---|--|-------------------------------|---|
| mirror contact a | ccording to IEC 60947-4-1 | | Yes | | |
| B10 value with high de | emand rate according to SN | N 31920 | 450 000 | | |
| proportion of danger | ous failures | | | | |
| with low demand | d rate according to SN 319 | 20 | 40 % | | |
| with high demar | nd rate according to SN 31 | 920 | 73 % | | |
| | ow demand rate according | | 100 FIT | | |
| | interval or service life acco | | 20 a | | |
| 61508 | | | 20 a | | |
| protection class IP or | n the front according to I | EC 60529 | IP20 | | |
| touch protection on t | the front according to IEC | 60529 | finger-safe, for vertical contac | ct from the front | |
| suitability for use | | | | | |
| safety-related sy | witching OFF | | Yes | | |
| ertificates/ approvals | | | | | |
| General Product App | | | | | |
| eeneral reduct top | | | | | |
| () | <u>Confirmation</u> | | | KC | EHC |
| EMC | Functional Safety/Safety of Ma- chinery | Declaration of 0 | Conformity | Test Certificates | |
| RCM | <u>Type Examination Cer-</u> tificate | UK CA | C C EG-Konf. | Special Test Certific- ate | Type Test Certific- ates/Test Report |
| Marine / Shipping | | 8.8 | Test | | |
| ABS | BUREAU VERITAS | | | PRS | RINA |
| ABS | BUREAU VERITAS | | Register | Railway | Environment |
| ABS Marine / Shipping | other Confirmation | | LINS | Railway Vibration and Shock | |
| In the contraction of the contra | Confirmation | VDE | | | Environmental Con- |
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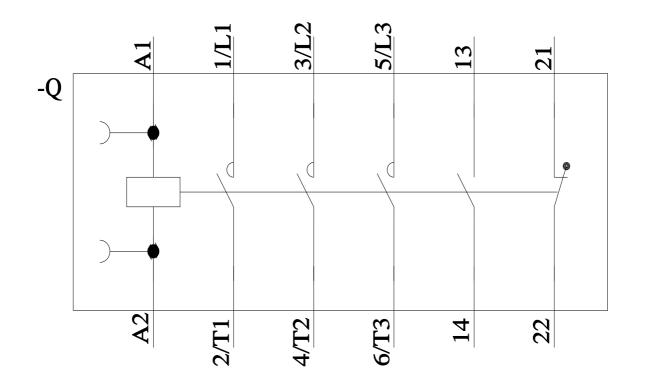
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