SIEMENS

Data sheet

3RT2035-1AB00



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2 $\,$

| product brand name SIRUS product designation Prower contactor product system SR2 size of contactor S2 product systemsion S2 • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.6 W • at AC in hot operating state 6.6 W • at AC in hot operating state per pole 2.2 W • without load current share typical 16 W insultation voltage 600 V • of auxiliary circuit with degree of pollution 3 rated value 600 V • of auxiliary circuit rated value 6 kV • of contactor typical 10 000 V • 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 auxilingr switch block typical 10 000 000 </th <th>- 10/2 A/18</th> <th></th> | - 10/2 A/18 | |
|---|---|-----------------------------|
| product type designation 3RT2 General technical data | product brand name | SIRIUS |
| Conneral technical data size of contactor S2 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.6 VV • at AC in hot operating state per pole 2.2 W • without load current share typical 16 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 surge voltage resistance 64 KV • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 64 KV • of auxiliary 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 rated value 64 KV • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 600 V • of auxiliary circuit with degree of pollution 3 rated value 600 V • of main circuit rated value 6 kV 18.5g / 5 ms, 74.g / 10 | product designation | Power contactor |
| size of contactor §2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.6 W • at AC in hot operating state per pole 2.2 W • without load current share typical 18 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 auxiliary circuit rated value 64KV • of main circuit with degree of pollution 3 rated value 64V • of auxiliary circuit rated value 64V • of auxiliary sintch bine pulse 11.8g / 5 ms, 7.4g / 10 ms motentactar with added electronically optimized 10000 000 • of the contactor | product type designation | 3RT2 |
| product extension incition module for communication No • Linction module for communication No • auxiliary switch Yes powor loss [W] for rated value of the current 6.6 W • at AC in hot operating state 6.6 W • eit AC in hot operating state per pole 2.2 W • eit Moti toad current share typical 16 W insulation voltage 690 V • of main circuit whit degree of pollution 3 rated value 690 V • of auxiliary circuit whit degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 18.5g / 5 ms, 11.6g / 10 ms </th <th>General technical data</th> <th></th> | General technical data | |
| • function module for communication No • suxiliary switch Yes power loss [W] for rated value of the current 6.6 W • at AC in hot operating state per pole 2.2 W • without load current share typical 16 W insultation voltage 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 with degree of pollution 3 rated value 680 V • of main circuit ated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor typical 10 000 000 • of the contactor typical 10 000 000 • of the contactor typical 10 000 000 | size of contactor | S2 |
| • auxiliary switch Yes power loss [W] for rated value of the current 6.6 W • at AC in hot operating state 6.6 W • at AC in hot operating state prole 2.2 W • without load current share typical 16 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 690 V • of auxiliary 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 with degree of pollution 3 rated value 64 V • of auxiliary circuit with degree of pollution 3 rated value 64 V • of auxiliary circuit rated value 64 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 10 000 000 • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added auxiliary switch block typical 10 0000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical </th <th>product extension</th> <td></td> | product extension | |
| power loss [W] for rated value of the current 6.6 W • at AC in hot operating state 6.6 W • at AC in hot operating state prole 2.2 W • without load current share typical 16 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 auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance at rectangular impulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 11.8g / 5 ms, 7.4g / 10 ms mechanical service life (operating cycles) 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 | function module for communication | No |
| • at AC in hot operating state per pole 2.2 W • without load current share typical 16 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 auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 10 000 000 • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized 2000 no auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary | auxiliary switch | Yes |
| • at AC in hot operating state per pole 2.2 W • withbut load current share typical 16 W insulation voltage 680 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary 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 18.5g / 5 ms, 7.4g / 10 ms • at AC 11.8g / 5 ms, 7.4g / 10 ms machanical service life (operating cycles) 10 000 000 • 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 • of the contactor with addeed auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2< | power loss [W] for rated value of the current | |
| • without load current share typical 16 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 64 V • of auxiliary circuit rated value 64 V • of the contactor with sine pulse 11.8g / 5 ms, 7.4g / 10 ms • of contactor with added electronically optimized 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 | at AC in hot operating state | 6.6 W |
| Insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value Surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value 6 KV and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC th Sg / 5 ms, 7.4g / 10 ms shock resistance with sine pulse at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) of 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) 10/01/2014 Ambient temperature during operation -25 +60 °C during storage -55 +80 °C relative humidity minimum 10 % <li< th=""><th> at AC in hot operating state per pole </th><td>2.2 W</td></li<> | at AC in hot operating state per pole | 2.2 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 • of auxiliary circuit with degree of pollution 3 rated value 6 kV • of auxiliary 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 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 10 000 000 • 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 reference code according to IEC 61346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minum 10 % relative humidity mit 55 °C according to | without load current share typical | 16 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 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 11.8g / 5 ms, 11.6g / 10 ms • 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 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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 minimum 10 % <t< th=""><th>insulation voltage</th><th></th></t<> | 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 coil and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 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) 100/1/2014 Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -55 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % 95 % 95 % | 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 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor 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) 10/01/2014 Ambient conditions 2 000 m installation allitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 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 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse - • at AC 18.5g / 5 ms, 11.6g / 10 ms shock resistance 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 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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 % 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 11.8g / 5 ms, 7.4g / 10 ms • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 11.8g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 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 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) 10/01/2014 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 % 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 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) • of contactor typical • 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) 10/01/2014 Ambient conditions 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 95 % | of auxiliary circuit rated value | 6 kV |
| • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 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) 10/01/2014 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 at 55 °C according to IEC 60068-2-30 95 % Main circuit Main circuit | | 400 V |
| shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 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 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) 10/01/2014 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 | shock resistance at rectangular impulse | |
| • at AC 18.5g / 5 ms, 11.6g / 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) 10/01/2014 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 % | • at AC | 11.8g / 5 ms, 7.4g / 10 ms |
| mechanical service life (operating cycles) integrating cycles) • 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) 10/01/2014 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 % | shock resistance with sine pulse | |
| • 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 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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 % | • at AC | 18.5g / 5 ms, 11.6g / 10 ms |
| • 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) 10/01/2014 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 % | mechanical service life (operating cycles) | |
| auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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 | of contactor typical | 10 000 000 |
| reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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) 10/01/2014 Ambient conditions 10/01/2014 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 | of the contactor with added auxiliary switch block typical | 10 000 000 |
| 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 % 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) | 10/01/2014 |
| 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 g5 % 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 maximum 95 % Main circuit 10 % | during operation | -25 +60 °C |
| relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Main circuit 95 % | during storage | -55 +80 °C |
| Main circuit | relative humidity minimum | 10 % |
| | | 95 % |
| number of noise for main current circuit | Main circuit | |
| | number of poles for main current circuit | 3 |

| number of NO contacts for main contacts | 3 |
|--|--------------------|
| | 3 |
| operating voltage at AC-3 rated value maximum | 690 V |
| at AC-3 rated value maximum at AC-3e rated value maximum | 690 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated | 60 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated | 60 A |
| value | |
| — up to 690 V at ambient temperature 60 °C rated value | 55 A |
| • at AC-3 | |
| — at 400 V rated value | 41 A |
| — at 500 V rated value | 41 A |
| — at 690 V rated value | 24 A |
| • at AC-3e | |
| — at 400 V rated value | 41 A |
| — at 500 V rated value | 41 A |
| — at 690 V rated value | 24 A |
| at AC-4 at 400 V rated value | 35 A |
| • at AC-5a up to 690 V rated value | 52.8 A |
| • at AC-5b up to 400 V rated value | 33.2 A |
| ● at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 36.5 A |
| — up to 400 V for current peak value n=20 rated value | 36.5 A |
| — up to 500 V for current peak value n=20 rated value | 36.5 A |
| — up to 690 V for current peak value n=20 rated value | 24 A |
| ● at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 24.2 A |
| — up to 400 V for current peak value n=30 rated value | 24.2 A |
| — up to 500 V for current peak value n=30 rated value | 24.2 A |
| — up to 690 V for current peak value n=30 rated value | 24 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 16 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 22 A |
| • at 690 V rated value | 18.5 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 23 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 | 55 A |
| — at 60 V rated value | 45 A |
| — at 110 V rated value | 45 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 | 55 A |
| — at 60 V rated value | 55 A |
| - at 110 V rated value | 55 A |
| - at 220 V rated value | 45 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 | 35 A | | | | |
|---|--|--|--|--|--|
| — at 60 V rated value | 6 A | | | | |
| — at 220 V rated value | 1 A | | | | |
| — at 440 V rated value | 0.1 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 | 55 A | | | | |
| — at 60 V rated value | 45 A | | | | |
| — at 110 V rated value | 25 A | | | | |
| — at 220 V rated value | 5 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 | 55 A | | | | |
| — at 60 V rated value | 55 A | | | | |
| — at 110 V rated value | 55 A | | | | |
| — at 220 V rated value | 25 A | | | | |
| — at 440 V rated value | 0.6 A | | | | |
| — at 600 V rated value | 0.35 A | | | | |
| operating power | | | | | |
| • at AC-2 at 400 V rated value | 18.5 kW | | | | |
| • at AC-3 | | | | | |
| — at 230 V rated value | 11 kW | | | | |
| — at 400 V rated value | 18.5 kW | | | | |
| — at 500 V rated value | 22 kW | | | | |
| — at 690 V rated value | 22 kW | | | | |
| • at AC-3e | | | | | |
| — at 230 V rated value | 11 kW | | | | |
| — at 400 V rated value | 18.5 kW | | | | |
| — at 500 V rated value | 22 kW | | | | |
| — at 690 V rated value | 22 kW | | | | |
| operating power for approx. 200000 operating cycles at AC- | | | | | |
| 4 | | | | | |
| at 400 V rated value | 11.6 kW | | | | |
| • at 690 V rated value | 16.8 kW | | | | |
| operating apparent power at AC-6a | | | | | |
| up to 230 V for current peak value n=20 rated value | 14.5 kVA | | | | |
| up to 400 V for current peak value n=20 rated value | 25.2 kVA | | | | |
| • up to 500 V for current peak value n=20 rated value | 31.6 kVA | | | | |
| • up to 690 V for current peak value n=20 rated value | 28.6 kVA | | | | |
| | | | | | |
| operating apparent power at AC-6a | | | | | |
| operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value | 9.6 kVA | | | | |
| • up to 230 V for current peak value n=30 rated value | 9.6 kVA 16.8 kVA | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value | 16.8 kVA | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value | 16.8 kVA 21 kVA | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value | 16.8 kVA | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value | 16.8 kVA 21 kVA | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to | 16.8 kVA 21 kVA | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C | 16.8 kVA 21 kVA 28.6 kVA | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| up to 230 V for current peak value n=30 rated value up to 400 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 peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 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 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-2 maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 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 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-3 maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 1/h 1 000 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 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 1/h 1 000 1/h 1 000 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 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-3 maximum | 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 1/h 1 000 1/h | | | | |

| | 10 |
|--|---|
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC • at 50 Hz rated value | 24 V |
| operating range factor control supply voltage rated value of | 24 V |
| magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 190 VA |
| inductive power factor with closing power of the coil | 0.70 |
| at 50 Hz apparent holding power of magnet coil at AC | 0.72 |
| • at 50 Hz | 16 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.37 |
| closing delay | |
| • at AC | 10 80 ms |
| opening delay | |
| • at AC | 10 18 ms |
| arcing time | 10 20 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts instantaneous contact | 1 |
| 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 at 600 V rated value | 1 A 0.15 A |
| operational current at DC-13 | 0.15 A |
| at 24 V rated value | 10 A |
| at 48 V rated value | 2 A |
| • at 60 V rated value | 2 A |
| at 110 V rated value | 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 | 40 A |
| • at 600 V rated value | 41 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 3 hp |
| — at 230 V rated value | 7.5 hp |
| for 3-phase AC motor at 200/200 V reted value | 10 hz |
| - at 200/208 V rated value | 10 hp |
| - at 220/230 V rated value | 15 hp |
| — at 460/480 V rated value — at 575/600 V rated value | 30 hp |
| | 40 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 | | | |
| with type of ocordination in required | gG. 100 A (690 V, 100 KA), am. 80 A (690 V, 100 KA), BS88. 125 A (415 V, 80 KA) | | | |
| — with type of assignment 2 required | , gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 | 114 mm | | | |
| width | 55 mm | | | |
| depth | 130 mm | | | |
| required spacing | | | | |
| with side-by-side mounting | 10 | | | |
| — forwards | 10 mm | | | |
| — upwards | 10 mm | | | |
| — downwards | 10 mm | | | |
| — at the side | 0 mm | | | |
| for grounded parts | 10 mm | | | |
| — forwards | | | | |
| — upwards | 10 mm 6 mm | | | |
| — at the side | | | | |
| — downwards | 10 mm | | | |
| • for live parts | 10 mm | | | |
| — forwards | | | | |
| — upwards | 10 mm | | | |
| — downwards — at the side | 10 mm 6 mm | | | |
| Connections/ Terminals | 0 mm | | | |
| 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 or stranded | 2x (1 35 mm²), 1x (1 50 mm²) | | | |
| finely stranded with core end processing | 2x (1 25 mm ²), 1x (1 35 mm ²) | | | |
| connectable conductor cross-section for main contacts | | | | |
| finely stranded with core end processing | 1 35 mm² | | | |
| connectable conductor cross-section for auxiliary contacts | | | | |
| solid or stranded | 0.5 2.5 mm² | | | |
| finely stranded with core end processing | 0.5 2.5 mm ² | | | |
| type of connectable conductor cross-sections | | | | |
| for auxiliary contacts | | | | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 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) | | | |
| AWG number as coded connectable conductor cross | | | | |
| section | | | | |
| for main contacts | 18 1 | | | |
| for auxiliary contacts | 20 14 | | | |
| Safety related data | | | | |
| product function | | | | |
| mirror contact according to IEC 60947-4-1 | Yes | | | |
| positively driven operation according to IEC 60947-5-1 | No | | | |
| proportion of dangerous failures | | | | |
| with low demand rate according to SN 31920 | 40 % | | | |
| | | | | |

| with high deman | nd rate according to SN 319 | 920 | 73 % | | | |
|--|---|---------------------|--|---|---|--|
| failure rate [FIT] with low demand rate according to SN 31920 | | 100 FIT | | | | |
| protection class IP on the front according to IEC 60529 | | IP20 | | | | |
| touch protection on the front according to IEC 60529 | | | finger-safe, for vertical contact from the front | | | |
| suitability for use | | | | | | |
| | safety-related switching OFF | | | Yes | | |
| Certificates/ approvals | | _ | | | | |
| General Product App | oroval | | | | | |
| | | Confirmation | | KC | EHC | |
| EMC | Functional Safety/Safety of Ma- chinery | Declaration of | Conformity | Test Certificates | | |
| RCM | <u>Type Examination Cer-</u> <u>tificate</u> | CE EG-Konf. | UK CA | Type Test Certific- ates/Test Report | <u>Special Test Certific-</u> <u>ate</u> | |
| Marine / Shipping | | | | | | |
| ABS | BUREAU VERITAS | | Lloyd's Register urs | PRS | RINA | |
| Marine / Shipping | other | | Railway | Dangerous Good | Environment | |
| KMRS | <u>Confirmation</u> | <u>Confirmation</u> | Vibration and Shock | Transport Information | Environmental Con- firmations | |
| Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business | | | | | | |

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-1AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1AB00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://sup

industry.siemens.com/cs/ww/en/ps/3RT2035

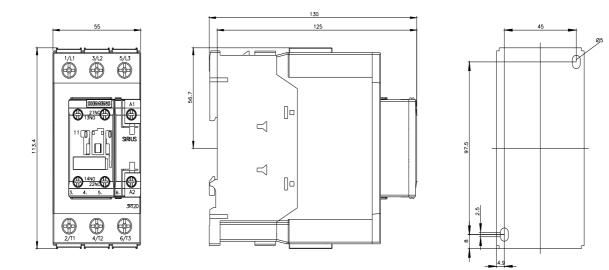
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1AB00&lang=en

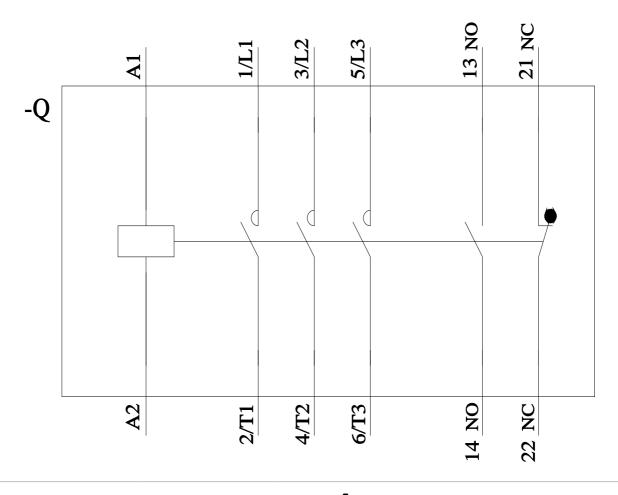
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AB00/char

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

RT2035-1AB00&objecttype=14&gridview=view1 http://www.automation.siem ens.com/bilddb/index.aspx?view=





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