SIEMENS

Data sheet

3RT2016-1AB02



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00

| product brand name SIRUS product brand data Power contactor product type designation SRT2 canaral technical data S00 product stansion No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 4.2 M • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insultation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 KV • of auxiliary circuit rated value 6 KV • of auxiliary circuit rated value 6 KV • of auxiliary switch 6 KV • of auxiliary switch 90 V surge voltage rosistance 6 KV • of auxiliary switch 6 KV • of auxiliary switch 6 KV • of auxiliary switch 6 Jo DO O • of auxiliary switch 6 Jo DO O • of auxiliary s | | |
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| product type designation 3RT2 General technical data S00 size of contactor S00 product extension No • darkaling switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insultation voltage 600 V • of main circult with degree of pollution 3 rated value 600 V • of auxiliary circult value 680 V • of auxiliary circult rated value 680 V • of auxiliary circult rated value 64 KV • of contacts excording to EN 00947.1 400 V • at AC 6.7g / 5 ms, 6.8g / 10 ms • at AC 10.5g / 5 ms, 6.8g / 10 ms • of contactor typical | product brand name | SIRIUS |
| General technical data S00 size of contactor S00 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 0.9 W • at AC in hot operating state 0.9 W 0.3 W • without load current share typical 0.9 W 0.3 W • of main circuit with degree of pollution 3 rated value 690 V 0.9 V • of auxiliary circuit with degree of pollution 3 rated value 690 V 0.9 V • of auxiliary circuit with degree of pollution 3 rated value 690 V 0.9 V • of auxiliary circuit rated value 64V 690 V • of auxiliary circuit rated value 64V 64V • of auxiliary circuit rated value 64V 64V • at AC 6.7g / 5 ms, 4.2g / 10 ms 000 V • at AC 10.5g / 5 ms, 6.6g / 10 ms 000 000 • of the contactor with added acteronically optimized auxilary switch block typical 30 000 000 5000 000 • of the contactor with added acteronically optimized auxilary switch block typical 10000 000 76 • of the contactor with added actero | product designation | Power contactor |
| size of contactor S00 product extension • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W Insulation 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 rated value 64 V • of auxillary circuit rated value 64 V • of main circuit rated value 64 V • of auxillary circuit rated value 64 V • of auxillary circuit rated value 61 V • of auxillary sitch block typical 400 V shock resistance with sine pulse 61 V • at AC 9,5 /5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 5000 000 • of the contactor with added electronically optimized 30 000 000 • of the contactor with added electronically | product type designation | 3RT2 |
| product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 6 kV • of main incruit rated value 6 kV • of anxilingy circuit rated value 6 kV • at AC 10.5g / 5 ms, 6.6g / 10 ms maximum permissible voltage for protective separation between contactor with added electronically optimized auxiliary switch block typical 30 000 000 • at AC 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 5000 000 • of the contactor with added electronically optimized auxiliary switch block typical | General technical data | |
| • function module for communication No • auxillary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insultation 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 ated value 6 k/V • of main circuit rated value 6 k/V • of auxiliary circuit rated value 6 k/V • at AC 6,7g / 5 ms, 4,2g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms • of the contactor which added auxiliary switch block typical 10 000 000 • of the contactor which added auxiliary switch block typical 10 000 000 | size of contactor | S00 |
| • auxiliary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insuliation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 64V • of auxiliary circuit with degree of pollution 3 rated value 64V • of auxiliary circuit value 64V • of auxiliary circuit value 64V • of auxiliary circuit rated value 64V • at AC 6.7g / 5 ms, 6.6g / 10 ms • at AC 10.5g / 5 ms, 6.6g / 10 ms • at AC 5000 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 <t< th=""><th>product extension</th><th></th></t<> | product extension | |
| power loss [W] for rated value of the current 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 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 64 V • of main circuit rated value 64 V • of auxiliary circuit rated value 64 V • at AC 6.7g / 5 ms, 4.2g / 10 ms shock resistance with sine pulse 6.7g / 5 ms, 6.6g / 10 ms • at AC 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10/001/2009 | function module for communication | No |
| • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 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 main circuit rated value 64 V • of auxiliary circuit rated value 6 kV • at AC 6.7g / 5 ms, 4.2g / 10 ms shock resistance with sine pulse • at AC • at AC 10.5g / 5 ms, 6.6g / 10 ms • of the contactor with added electronically optimized 30 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 </th <th>auxiliary switch</th> <th>Yes</th> | auxiliary switch | Yes |
| • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insulation voltage 6 • 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 690 V • of auxiliary circuit rated value 6 kV • at AC 6.7g / 5 ms, 4.2g / 10 ms shock resistance at rectangular impulse 6.7g / 5 ms, 6.6g / 10 ms • at AC 10.5g / 5 ms, 6.6g / 10 ms • at AC 10.5g / 5 ms, 0.6g / 10 ms • of contactor typical 30 000 000 • 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 (Dat | power loss [W] for rated value of the current | |
| • without load current share typical 4.2 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 • at AC 6.7g / 5 ms, 4.2g / 10 ms • at AC 10.5g / 5 ms, 6.6g / 10 ms • of contactor typical 30 000 000 • 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) 1001/2009 Ambient conditions -25 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • during sto | at AC in hot operating state | 0.9 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 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 6,7g / 5 ms, 4,2g / 10 ms • at AC 6,7g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 0 • 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 8136-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient temperature - - • during storage | at AC in hot operating state per pole | 0.3 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 680 V • 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 6,7 / 5 ms, 4,2g / 10 ms • at AC 6,7 / 5 ms, 4,2g / 10 ms shock resistance with sine pulse 6 • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 30 000 000 • 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 -25 +60 °C • during operation -25 +60 °C • during storage -55 +60 °C • felative humidity at 55 °C according to IEC 60068-2 | without load current share typical | 4.2 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 • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • ad addition contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 6,7g / 5 ms, 4,2g / 10 ms • at AC 6,7g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 30 000 000 • of contactor typical 30 000 000 • 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 -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 95 % <th>insulation voltage</th> <th></th> | insulation voltage | |
| surge voltage resistance 6 • 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 6,7g / 5 ms, 4,2g / 10 ms • at AC 6,7g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 30 000 000 • 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 operation -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 maximum 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 coll and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 6,7g / 5 ms, 4,2g / 10 ms • at AC 6,7g / 5 ms, 6,6g / 10 ms shock resistance with sine pulse 6,7g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 30 000 000 • 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 2 000 m ambient temperature -55 +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 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse - • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) - • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 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 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 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 6,7g / 5 ms, 4,2g / 10 ms • at AC 6,7g / 5 ms, 6,6g / 10 ms shock resistance with sine pulse 0,5g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 30 000 000 • of contactor typical 30 000 000 • 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 -55 +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 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 30 000 000 • of contactor typical 30 000 000 • 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 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 auxiliary circuit rated value | 6 kV |
| • at AC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse 10,5g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 30 000 000 • 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 • 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 40 min circuit | | 400 V |
| shock resistance with sine pulse 0.5g / 5 ms, 6,6g / 10 ms e at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 30 000 000 • of contactor typical 30 000 000 • 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 40 mino circuit | shock resistance at rectangular impulse | |
| • at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 % | • at AC | 6,7g / 5 ms, 4,2g / 10 ms |
| mechanical service life (operating cycles) 30 000 000 • 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 • 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 | 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 of the conditions auxiliary states of the conditions auxiliary states the typical the typical the typical the typical the typical the typical the typi | • at AC | 10,5g / 5 ms, 6,6g / 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 -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 | 30 000 000 |
| 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 2 000 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 % | 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 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 400 m | 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 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 95 % Main circuit 95 % | 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 |
| 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 | 22 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 22 A |
| — up to 690 V at ambient temperature 60 °C rated | 20 A |
| value | |
| ● at AC-3 | |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| — at 690 V rated value | 6.7 A |
| • at AC-3e | |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| — at 690 V rated value | 6.7 A |
| at AC-4 at 400 V rated value | 8.5 A |
| at AC-5a up to 690 V rated value | 19.4 A |
| • at AC-5b up to 400 V rated value | 7.4 A |
| • at AC-6a | 5.2.4 |
| — up to 230 V for current peak value n=20 rated value | 5.3 A |
| — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value | 5.3 A 5.3 A |
| — up to 500 V for current peak value n=20 rated value | 5.5 A |
| • at AC-6a | 54 |
| up to 230 V for current peak value n=30 rated value | 3.5 A |
| — up to 200 V for current peak value n=30 rated value | 3.5 A |
| — up to 500 V for current peak value n=30 rated value | 3.6 A |
| — up to 690 V for current peak value n=30 rated value | 3.3 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 4 mm ² |
| value | |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 4.1 A |
| at 690 V rated value | 3.3 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 2.1 A |
| — at 220 V rated value | 0.8 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.6 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 12 A |
| — at 220 V rated value | 1.6 A |
| — at 440 V rated value | 0.8 A |
| — at 600 V rated value | 0.7 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 20 A |
| — at 220 V rated value | 20 A |
| — at 440 V rated value | 1.3 A |
| — at 600 V rated value | 1 A |
| at 1 current path at DC-3 at DC-5 | |

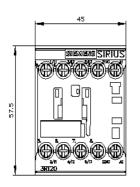
| | — at 24 V rated value | 20 A |
|---|---|--|
| • with 2 current path in sories at DC-3 at DC-6 20 A - at 20 V rated value 5A - at 10 V rated value 0.35 A - at 24 V rated value 20 A - at 240 V rated value 20 A - at 240 V rated value 20 A - at 240 V rated value 20 A - at 250 V rated value 22 A - at 250 V rated value 22 A - at 250 V rated value 55 MV - at 250 V rated value 4 MV - at 250 V rated value 5 MV - at 250 V rated value 5 MV - at 250 V rated value 2 MV | | |
| | | 0.15 A |
| | - | |
| | — at 24 V rated value | |
| • with 3 current paths in series at DC-3 at DC-5 20 - at 24 V rated value 20 A - at 10 V rated value 20 A - at 24 V rated value 20 A - at 240 V rated value 20 A - at 250 V rated value 22 A - at 250 V rated value 22 AW - at 250 V rated value 4 WV - at 250 V rated value 4 WV - at 250 V rated value 5 KW - at 250 V rated value 4 WV - at 250 V rated value 5 KW - at 250 V rated value 5 KW - at 250 V rated value 5 KW - at 250 V rated value 2 KW - at 250 V rated value no 20 rated value 2 KW - at 250 V rated value no 20 rated value 2 KW - at 250 V rated value no 20 rated value 3 KWA - op 10 250 V for current pack value no 20 rated value 3 KWA - op 10 250 V for current pack value no 20 rated value </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 at AC-3 cl 230 V rated value cl 230 V rated value cl 24 WV cl 240 V rated value cl 24 WV cl 240 V rated value cl 400 V for current pack value n=20 rated value cl 400 V for current pack value n=20 rated value cl 400 V for current pack value n=20 rated value cl 400 V for current pack value n=20 rated value cl 400 V for current pack value n=20 rated value cl 40 600 V for current pack value n=20 rated value cl 40 600 V for current pack value n=20 rated value cl 40 600 V for current pack value n=20 rated value cl 40 600 V for current pack value n=30 rated value cl 40 600 V for current pack value n=30 rated value cl 40 600 V for current pack value n=30 rated value cl 40 600 V for current pack value n=30 rated value cl 40 60 V for current pack value n=30 rated value cl 40 0 V for current pack | — at 440 V rated value | 0.2 A |
| • at 2G-3 - at 230 V rated value 22 kW - at 300 V rated value 4 kW - at 300 V rated value 4 kW - at 300 V rated value 5 kW • at 400 V rated value 5 kW - at 300 V rated value 4 kW - at 400 V rated value 5 kW operating power for approx. 20000 operating cycles at AC-4 4 kW • at 400 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V fraide value 2 kW • up to 500 V for current peak value n=20 rated value 5 kVA • up to 500 V for current peak value n=20 rated value 5 kVA • up to 500 V for current peak value n=30 rated value 3 kVA • up to 500 V for current peak value n=30 rated value 3 kVA • up to 500 V for current peak value n=30 rated value 3 kVA • up to 500 V for current peak value n=30 rated value 3 kVA < | — at 600 V rated value | 0.2 A |
| | operating power | |
| | • at AC-3 | |
| | — at 230 V rated value | 2.2 kW |
| | — at 400 V rated value | 4 kW |
| e at AC-3e | — at 500 V rated value | 4 kW |
| | — at 690 V rated value | 5.5 kW |
| | • at AC-3e | |
| | — at 230 V rated value | 2.2 kW |
| | — at 400 V rated value | 4 kW |
| operating power for approx. 200000 operating cycles at AC-4 4 e at 400 V rated value 2 kW • et 690 V rated value 2.5 kW operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 5.8 kVA • up to 500 V for current peak value n=30 rated value 5.8 kVA • up to 500 V for current peak value n=30 rated value 5.8 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4.0 kVA Short-time withtsand current in cold operating state up to 40 *C 11.3 kVA • limited to 10 s switching at zero current maximum 155 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 6A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 10 000 1/h • at AC- 10 000 1/h • at AC- 10 000 1/h | — at 500 V rated value | 4 kW |
| A dot V rated value at 690 V for current peak value n=20 rated value at 600 V for current peak value n=20 rated value at 6 kVA au pt 6 500 V for current peak value n=20 rated value au pt 0 500 V for current peak value n=20 rated value but 0 20 V for current peak value n=20 rated value but 0 500 V for current peak value n=20 rated value but 0 500 V for current peak value n=20 rated value but 0 500 V for current peak value n=30 rated value but 0 500 V for current peak value n=30 rated value au pt 0 500 V for current peak value n=30 rated value au pt 0 500 V for current peak value n=30 rated value au pt 0 500 V for current peak value n=30 rated value au pt 0 500 V for current peak value n=30 rated value au pt 0 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value au pt 0 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 500 V for current peak value n=30 rated value for 50 V for current peak value n=30 rated value for 50 V for current maximum for 50 V for current maximum | — at 690 V rated value | 5 kW |
| • at 400 V rated value 2 kW • at 690 V rated value 2.5 kW operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 4.8 kVA • up to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4. kVA • up to 500 V for current peak value n=30 rated value 4. kVA • up to 500 V for current peak value n=30 rated value 4. kVA • up to 500 V for current peak value n=30 rated value 4. kVA • up to 500 V for current peak value n=30 rated value 4. kVA • up to 500 V for current peak value n=30 rated value 5.4. kVA • up to 500 V for current peak value n=30 rated value 4. kVA • initied to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • initied to 10 s switching at zero | operating power for approx. 200000 operating cycles at AC- | |
| • at 690 V rated value 2.5 kW operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a | 4 | |
| operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 2 kVA • up to 500 V for current peak value n=20 rated value 3.6 kVA • up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4. kVA short-time withstand current in cold operating state up to 40°C 4 kVA • limited to 1 s switching at zero current maximum 115 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • at AC-1 maximum 10000 1/ | • at 400 V rated value | 2 kW |
| • up to 230 V for current peak value n=20 rated value 2 kVA • up to 500 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA • up to 500 V for current peak value n=30 rated value 4.5 kVA • up to 500 V for current peak value n=30 rated value 4.5 kVA • ilmited to 10 s switching at zero current maximum 115 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 56 A; Use minimum cross-section acc | • at 690 V rated value | 2.5 kW |
| up to 400 V for current peak value n=20 rated value 3.6 kVA up to 500 V for current peak value n=20 rated value 4.6 kVA up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6 up to 230 V for current peak value n=30 rated value 1.3 kVA up to 500 V for current peak value n=30 rated value 2.4 kVA up to 500 V for current peak value n=30 rated value 2.4 kVA up to 500 V for current peak value n=30 rated value 2.4 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 500 V for current peak value n=30 rated value 4. kVA short-time withstand current in cold operating state up to 40°C limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 50 s switching at zero current maximum de A: Use minimum cross-section acc. to AC-1 rated value binited to 50 s switching at zero current maximum de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value at AC-1 maximum 1000 1/h at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum< | operating apparent power at AC-6a | |
| • up to 500 V for current peak value n=20 rated value • up to 680 V for current peak value n=20 rated value 5.8 kVA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 1.3 kVA • up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 680 V for current peak value n=30 rated value 4.6 kVA • up to 680 V for current peak value n=30 rated value 2.4 kVA • up to 680 V for current peak value n=30 rated value 4.6 kVA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 4.7 VA • up to 680 V for current peak value n=30 rated value 1.5 K. Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.1 A; Use minimum cross-section acc. to AC-1 rated value 1.2 V 1.1 A; Use minimu | up to 230 V for current peak value n=20 rated value | 2 kVA |
| • up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 230 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 4. kVA short-time withstand current in cold operating state up to 40 °C 4 kVA • limited to 1 s switching at zero current maximum 115 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 50 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 10 000 1/h • at AC 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h <td> up to 400 V for current peak value n=20 rated value </td> <td>3.6 kVA</td> | up to 400 V for current peak value n=20 rated value | 3.6 kVA |
| operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 1.3 kVA up to 400 V for current peak value n=30 rated value 2.4 kVA up to 590 V for current peak value n=30 rated value 4 kVA up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40°C limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value limited to 10 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value limited to 30 s switching at zero current maximum fimited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value motod switching frequency at AC at AC 1000 1/h at AC-3 maximum 1000 1/h at AC-3 maximum 750 1/h at AC-4 maximum 250 1/h Control supply voltage at AC at SO Hz rated value 24 V at 60 Hz rated value < | up to 500 V for current peak value n=20 rated value | 4.6 kVA |
| up to 230 V for current peak value n=30 rated value 1.3 kVA up to 400 V for current peak value n=30 rated value 2.4 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value at AC-1 maximum at AC-1 maximum 1000 1/h at AC-2 maximum to 000 1/h at AC-3 maximum to 000 1/h at AC-4 maximum to 000 1/h at AC-3 maximum to 000 1/h to 000 1/h to 0.00 1/h to 0. | up to 690 V for current peak value n=20 rated value | 5.9 kVA |
| • up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C - • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h operating frequency - • 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 - type of voltage of the control supply voltage AC • at 60 | operating apparent power at AC-6a | |
| • up to 500 V for current peak value n=30 rated value3.1 kVA• up to 690 V for current peak value n=30 rated value4 kVAshort-time withstand current in cold operating state up to 40 °C40 °C• limited to 1 s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• at AC00 000 1/h• operating frequency• at AC-1 maximum• at AC-3 maximum1000 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 maximum24 V• at 60 Hz rated value24 V </td <td> up to 230 V for current peak value n=30 rated value </td> <td>1.3 kVA</td> | up to 230 V for current peak value n=30 rated value | 1.3 kVA |
| • up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40°C - • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h 0000 1/h operating frequency - - • at AC-3 maximum 750 1/h - • at AC-3 maximum 750 1/h - • at AC-4 maximum 250 1/h - Control circuit/ Control - - <td> up to 400 V for current peak value n=30 rated value </td> <td>2.4 kVA</td> | up to 400 V for current peak value n=30 rated value | 2.4 kVA |
| short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 3 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • 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 24 V • at 60 Hz rated value 24 V | up to 500 V for current peak value n=30 rated value | 3.1 kVA |
| 40 °C • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching frequency • • at AC 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control V • at AC-4 maximum 250 1/h Control supply voltage at AC 24 V • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 | up to 690 V for current peak value n=30 rated value | 4 kVA |
| • limited to 1 s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum10 000 1/h• at AC-110 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/hControl supply voltage at ACAC• at 60 Hz rated value24 V• at 60 Hz rated value24 V | | |
| • limited to 5 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching frequency 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h operating frequency 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-3 maximum 750 1/h • at AC-3e maximum 750 1/h • at AC-4 maximum 250 1/h • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V | | |
| limited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency at AC 10 000 1/h operating frequency at AC-1 maximum 1000 1/h at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum bype of voltage of the control supply voltage AC control supply voltage at AC at 50 Hz rated value at 50 Hz rated value at 60 Hz rated value at V operating range factor control supply voltage rated value of magnet coil at AC | - | |
| Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum S5 A; Use minimum cross-section acc. to AC-1 rated value Imited to 60 s switching at zero current maximum S5 A; Use minimum cross-section acc. to AC-1 rated value Imited to 60 s switching at zero current maximum S5 A; Use minimum cross-section acc. to AC-1 rated value Imited to 60 s switching at zero current maximum S5 A; Use minimum cross-section acc. to AC-1 rated value Imited to 60 s switching at zero current maximum S5 A; Use minimum cross-section acc. to AC-1 rated value Imited to 60 s switching at zero current maximum S5 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-2 maximum T50 1/h at AC-3 maximum T50 1/h at AC-3 maximum T50 1/h at AC-4 maximum T50 1/h at AC-4 maximum Z50 1/h Control circuit/ Control type of voltage of the control supply voltage AC at 50 Hz rated value 24 V at 60 Hz rated value 24 V operating range factor control supply voltage rated value of magnet coil at AC | - | |
| • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10 000 1/h • at AC 10 000 1/h operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 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 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V | - | |
| no-load switching frequency• 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 e maximum750 1/h• at AC-4 maximum250 1/h• at 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 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltageAC• at 50 Hz rated value24 V• at 60 Hz rated value24 V• operating range factor control supply voltage rated value of magnet coil at AC | | 55 A; Use minimum cross-section acc. to AC-1 rated value |
| operating frequency1 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-3e maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum240• at 50 Hz rated value24 V• at 60 Hz rated value24 V• operating range factor control supply voltage rated value of magnet coil at AC | | |
| • 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 value24 V• at 60 Hz rated value24 V• operating range factor control supply voltage rated value of magnet coil at AC | | 10 000 1/h |
| • at AC-2 maximum750 1/h• at AC-3 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/hControl circuit/ ControlACcontrol supply voltage at ACAC• at 50 Hz rated value24 V• at 60 Hz rated value24 Voperating range factor control supply voltage rated value of magnet coil at ACImagnet coil at AC | | |
| • 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/ ControlAC• otat ge of the control supply voltageAC• at 50 Hz rated value24 V• at 60 Hz rated value24 V• operating range factor control supply voltage rated value of magnet coil at ACImagnet coil at AC | | |
| • at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlACtype of voltage of the control supply voltageACcontrol supply voltage at AC24 V• at 50 Hz rated value24 V• at 60 Hz rated value24 Voperating range factor control supply voltage rated value of magnet coil at ACImage: Control supply voltage rated value of the control supply voltage rated value | | |
| • 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 24 V • at 60 Hz rated value 24 V operating range factor control supply voltage rated value of magnet coil at AC | | 750 1/h |
| Control circuit/ Control AC type of voltage of the control supply voltage AC control supply voltage at AC 4000000000000000000000000000000000000 | | 750 1/h |
| type of voltage of the control supply voltage AC control supply voltage at AC 24 V • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V operating range factor control supply voltage rated value of magnet coil at AC 24 V | | 250 1/h |
| control supply voltage at AC 24 V • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V operating range factor control supply voltage rated value of magnet coil at AC Photocol | Control circuit/ Control | |
| at 50 Hz rated value 24 V at 60 Hz rated value 24 V operating range factor control supply voltage rated value of magnet coil at AC | type of voltage of the control supply voltage | AC |
| • at 60 Hz rated value 24 V operating range factor control supply voltage rated value of magnet coil at AC | control supply voltage at AC | |
| operating range factor control supply voltage rated value of magnet coil at AC | • at 50 Hz rated value | 24 V |
| magnet coil at AC | • at 60 Hz rated value | 24 V |
| • at 50 Hz 0.8 1.1 | | |
| | ● at 50 Hz | 0.8 1.1 |

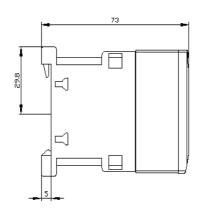
| • at 60 Hz | 0.85 1.1 |
|--|---|
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 27 VA |
| • at 60 Hz | 24.3 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.8 |
| • at 60 Hz | 0.75 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 4.2 VA |
| ● at 60 Hz | 3.3 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 | 7.6 A |
| • at 600 V rated value | 9 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.33 hp |
| — at 230 V rated value | 1 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 2 hp |
| — at 220/230 V rated value | 3 hp |
| — at 460/480 V rated value | 5 hp |
| — at 575/600 V rated value | 7.5 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| ÷ | |

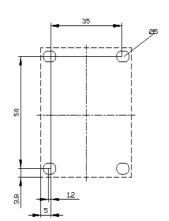
| for short-circuit protection of the main circuit | |
|---|--|
| — with type of coordination 1 required | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| — with type of assignment 2 required | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| side-by-side mounting | Yes |
| height | 58 mm |
| width | 45 mm |
| depth | 73 mm |
| required spacing | |
| • 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 |
| | 10 mm 10 mm |
| — upwards — at the side | 6 mm |
| — downwards | o mm |
| for live parts | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 6 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| for auxiliary and control circuit | screw-type terminals |
| at contactor for auxiliary contacts | Screw-type terminals |
| of magnet coil | Screw-type terminals |
| type of connectable conductor cross-sections for main contacts | |
| • solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| solid or stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| connectable conductor cross-section for main contacts | |
| • solid | 0.5 4 mm² |
| stranded | 0.5 4 mm² |
| finely stranded with core end processing | 0.5 2.5 mm² |
| connectable conductor cross-section for auxiliary contacts | |
| solid or stranded | 0.5 4 mm² |
| finely stranded with core end processing | 0.5 2.5 mm² |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| — finely stranded with core end processing | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 2x 12 |
| AWG number as coded connectable conductor cross section | |
| for main contacts | 20 12 |
| for auxiliary contacts | 20 12 |
| Safety related data | |
| product function | |
| mirror contact according to IEC 60947-4-1 | Yes |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 | 73 % |

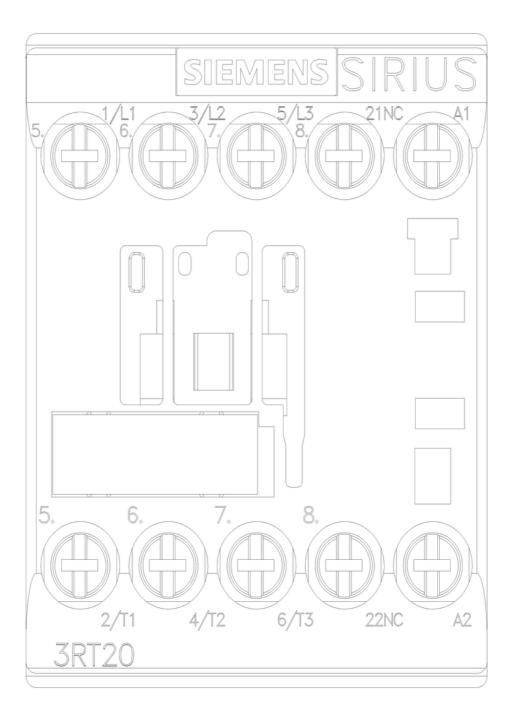
| failure rate [FIT] with lo | w demand rate according | o SN 31920 | 100 FIT | | | |
|---------------------------------------|--|----------------|------------|---------------------------|---|---|
| T1 value for proof test | interval or service life acco | | 20 a | | | |
| 61508 | the frent eccerding to II | | IP20 | | | |
| | n the front according to II he front according to IEC | | | , for vertical contact | from the front | |
| suitability for use | the front according to IEC | 60529 | inger-sale | | | |
| safety-related sv | | | Yes | | | |
| Certificates/ approvals | | | 163 | | | |
| General Product App | roval | | | | | |
| () S | CCC | Confirmatio | 'n | | KC | EAC |
| EMC | Functional Safety/Safety of Ma- chinery | Declaration of | Conformity | | Test Certificates | |
| RCM | <u>Type Examination Cer-</u> <u>tificate</u> | UK CA | | CE EG-Konf. | Type Test Certific- ates/Test Report | <u>Special Test Certific-</u> <u>ate</u> |
| Marine / Shipping | | | | | | |
| ABS | BUREAU VERITAS | | | Lloyds Register uis | PRS | RINA |
| Marine / Shipping | other | | | | Railway | Environment |
| KMRS | <u>Confirmation</u> | DE |) | <u>Confirmation</u> | Vibration and Shock | Environmental Con- firmations |
| | | | | | | |

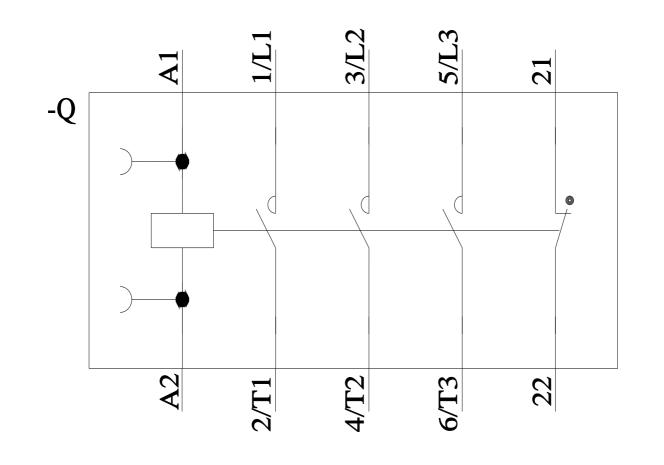
| | has decided to exit the Russian market (see here). ss.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business |
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