SIEMENS

Data sheet

3RT2015-1AF02



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00,

| product brand name SIRUS product brand designation 9x8r2 contactor product type designation 9x8r2 connector \$00 product type designation \$00 size of contactor \$00 product extension No - function module for communication No - auxiliary switch Yes power loss [V] for rated value of the current 0.6 W - et AC in hot operating state 0.6 W - et AC in hot operating state per pole 0.2 W - of main circult with degree of pollution 3 rated value 690 V - of auxiliary circult with degree of pollution 3 rated value 690 V - of auxiliary circult rated value 680 V - of auxiliary circult rated value 600 V - of auxiliary circult rated value 600 V - of auxiliary circult rated value 61 V - of auxiliary circult | | |
|---|---|----------------------------|
| product type designation 3RT2 General technical data S00 size of contactor S00 product extension No • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4.2 W insulation voltage 600 V • of main circult with degree of pollution 3 rated value 600 V • of auxiliary circult rated value 600 V • of auxiliary circult rated value 6kV • of auxiliary switch block typical 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 5000 000 • of contactor typical 30 000 000 • of o | product brand name | SIRIUS |
| General tochnical data S00 size of contactor S00 product extension No • auxiliary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state 0.6 W • 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 690 V • of main circuit with degree of pollution 3 rated value 64 V • of main circuit with degree of pollution 3 rated value 64 V • of main circuit with degree of pollution 3 rated value 64 V • of auxillary circuit rated value 63 V • of auxillary circuit rated value 60 V • ot AC 6.7g / 5 ms, 4.2g / 10 ms mechanical service life (operating cycles) 30 000 000 • of the contactor with added electronically optimized 30 000 000 • of the contactor with added auxillary switch block typical 10 000 000 • of the contactor with added auxillary switch block typical 10 000 000 | product designation | Power contactor |
| size of contactor S00 product extension No • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4.2 W insulation voltage 680 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 64 V • of main circuit rated value 64 V • of auxiliary setup to lobe 60947-1 400 V shock resistance at rectangular impulse 61,57 /5 ms, 4,2g / 10 ms machanical service life (operating cycles) 600 000 • of the contactor with added electronically optimized 30 000 000 • of the contactor with added suxiliary switch block typical 10000 000 reference code according to EC | product type designation | 3RT2 |
| product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 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 690 V • of main circuit rated value 6 kV • of main contacts according to EN 60947-1 6.7g / 5 ms, 4.2g / 10 ms shock resistance at rectangular impulse 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 the contactor with added electronically optimized 30 000 000 auxiliary switch block typical 30 000 000 • of the contactor with added auxiliary switch block typical 00 V • of the contactor with added electronically optimized 00 00 auxiliary switch block typical 2000 m | General technical data | |
| • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4.2 W Insulation voitage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit ated value 6 kV • of main circuit ated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary sincuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 6.7g / 5 ms, 4.2g / 10 ms shock resistance with sine pulse 5 000 000 • at AC 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 3 0000 000 • of the contactor whicaded auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) | size of contactor | S00 |
| • auxiliary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state per pole 0.2 W • at AC in hot operating state per pole 0.2 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 64 V • of auxiliary circuit with degree of pollution 3 rated value 64 V • of auxiliary circuit rated value 64 V • of auxiliary circuit rated value 64 V maximum permissible voltage for protective separation between col and main contacts according to EN 60947-1 67 ms, 4,2g / 10 ms shock resistance at rectangular impulse 60,000 90 V • at AC 6.7g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 10.000 000 • of ontactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 0000 | product extension | |
| power loss [W] for rated value of the current 0.6 W • at AC in hot operating state per pole 0.2 W • withoot 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 main circuit with degree of pollution 3 rated value 690 V • of main 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 at rectangular inpulse • at AC • at AC 10.5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 0 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10/01/2009 | function module for communication | No |
| • at AC in hot operating state 0.6 W • at AC in hot operating state prole 0.2 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 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 6 kV • of main circuit rated value 6 kV • of auxiliary sitch block typical 10.5g / 5 ms, 6,6g / 10 ms • at AC 10.5g / 5 ms, 6,6g / 10 ms • auxiliary switch block typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added au | auxiliary switch | Yes |
| • at AC in hot operating state per pole 0.2 W • without load current share typical 4.2 W insulation voltage 600 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 690 V • of auxiliary circuit rated value 6 kV • of main circuit with degree of pollution 8 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 • at AC 6 for 00 000 • at AC 5 000 000 • 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 • of the contactor with added auxiliary switch block typical 10 000 000< | 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 with degree of pollution 3 rated value 680 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 suitiary 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 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with addee elevel maximum 2 000 m ambient conditions -55 +60 °C • during storage </th <th> at AC in hot operating state </th> <th>0.6 W</th> | at AC in hot operating state | 0.6 W |
| insulation voltage 600 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 680 V • 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 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) - • 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 -25 +60 °C | at AC in hot operating state per pole | 0.2 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 680 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, 4,2g / 10 ms shock resistance with sine pulse 6,000 000 • 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 minimum 10 % | 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 maximum presistile voltage for protective separation between 400 V 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 mechanical service life (operating cycles) 00 000 • of the 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) 10 001/2009 Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2.30 95 % | 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 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 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 strage -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 • 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 • at AC 6,7g / 5 ms, 4,2g / 10 ms • at AC 6,7g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms • at AC 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 • 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 • of the contactor with added auxiliary switch block typical 0 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0 000 n • of the contactor with added auxiliary switch block typical 10 000 000 | 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 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, 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 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to EC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 55 % | 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, 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) 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 • of the contactor with addeed 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 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 % according to IEC | 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 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 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) 10/1/2009 Ambient conditions 2000 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 % | of auxiliary circuit rated value | 6 kV |
| • at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse10,5g / 5 ms, 6,6g / 10 ms• 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 m• during operation • during storage-25 +60 °C• relative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 % | | 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 typical5000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• ambient conditions2 000 m• during operation • during storage-25 +60 °C• during storage-55 s +80 °Crelative humidity minimum10 %Main circuit95 % | • 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 +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 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 | 10,5g / 5 ms, 6,6g / 10 ms |
| • of the contactor with added electronically optimized auxiliary switch block typical5 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-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %Main circuit95 % | mechanical service life (operating cycles) | |
| 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-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %Main circuit95 % | 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 % Main circuit 95 % | | 5 000 000 |
| 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 % | 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 4 | Substance Prohibitance (Date) | 10/01/2009 |
| ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit | Ambient conditions | |
| • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit | installation altitude at height above sea level maximum | 2 000 m |
| | 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 |
| 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 | 5 |
| 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 | 18 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated | 18 A |
| value | |
| — up to 690 V at ambient temperature 60 °C rated value | 16 A |
| • at AC-3 | |
| — at 400 V rated value | 7 A |
| — at 500 V rated value | 6 A |
| — at 690 V rated value | 4.9 A |
| • at AC-3e | |
| — at 400 V rated value | 7 A |
| — at 500 V rated value | 6 A |
| — at 690 V rated value | 4.9 A |
| at AC-4 at 400 V rated value | 6.5 A |
| • at AC-5a up to 690 V rated value | 15.8 A |
| • at AC-5b up to 400 V rated value | 5.8 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 4 A |
| — up to 400 V for current peak value n=20 rated value | 4 A |
| — up to 500 V for current peak value n=20 rated value | 3.8 A |
| — up to 690 V for current peak value n=20 rated value | 3.6 A |
| ● at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 2.7 A |
| — up to 400 V for current peak value n=30 rated value | 2.7 A |
| — up to 500 V for current peak value n=30 rated value | 2.5 A |
| — up to 690 V for current peak value n=30 rated value | 2.4 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 2.5 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 2.6 A |
| • at 690 V rated value | 1.8 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 1.5 A |
| — at 220 V rated value | 0.6 A |
| — at 440 V rated value | 0.42 A |
| — at 600 V rated value | 0.42 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 8.4 A |
| — at 220 V rated value | 1.2 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.5 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 15 A |
| — at 440 V rated value | 0.9 A |
| — at 600 V rated value | 0.7 A |
| at 1 current path at DC-3 at DC-5 | |

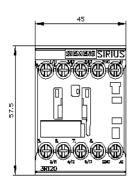
| — at 24 V rated value | 15 A |
|---|---|
| — at 60 V rated value | 0.35 A |
| — at 110 V rated value | 0.1 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 3.5 A |
| — at 110 V rated value | 0.25 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 1.2 A |
| — at 440 V rated value | 0.14 A |
| — at 600 V rated value | 0.14 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| ● at AC-3e | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | |
| • at 400 V rated value | 1.15 kW |
| • at 690 V rated value | 1.15 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 1.5 kVA |
| up to 400 V for current peak value n=20 rated value | 2.7 kVA |
| up to 500 V for current peak value n=20 rated value | 3.3 kVA |
| up to 690 V for current peak value n=20 rated value | 4.3 kVA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 1 kVA |
| up to 400 V for current peak value n=30 rated value | 1.8 kVA |
| up to 500 V for current peak value n=30 rated value | 2.2 kVA |
| up to 690 V for current peak value n=30 rated value | 2.9 kVA |
| short-time withstand current in cold operating state up to | |
| 40 °C | |
| • limited to 1 s switching at zero current maximum | 120 A; Use minimum cross-section acc. to AC-1 rated value |
| Imited to 5 s switching at zero current maximum | 86 A; Use minimum cross-section acc. to AC-1 rated value |
| Imited to 10 s switching at zero current maximum | 67 A; Use minimum cross-section acc. to AC-1 rated value |
| Imited to 30 s switching at zero current maximum | 52 A; Use minimum cross-section acc. to AC-1 rated value |
| Imited to 60 s switching at zero current maximum | 43 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 | 1 000 1/h |
| • at AC-2 maximum | 750 1/h |
| • at AC-3 maximum | 750 1/h |
| • at AC-3e maximum | 750 1/h |
| • at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |
| • at 50 Hz rated value | 110 V |
| • at 60 Hz rated value | 110 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| | |

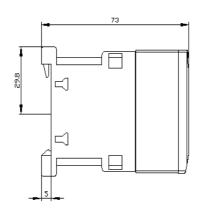
| • at 60 Hz | 0.85 1.1 |
|---|---|
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 27 VA |
| • at 60 Hz | 24.3 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.8 |
| • at 60 Hz | 0.75 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 4.2 VA |
| • at 60 Hz | 3.3 VA |
| inductive power factor with the holding power of the coil | 0.0 V/ |
| 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 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 | 1A |
| 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 | 1A |
| at 600 V rated value | 0.15 A |
| | 0.15 A |
| operational current at DC-13 | 10.4 |
| 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 | 4.8 A |
| • at 600 V rated value | 6.1 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.25 hp |
| — at 230 V rated value | 0.75 hp |
| for 3-phase AC motor | |
| — at 200/208 V rated value | 1.5 hp |
| — at 220/230 V rated value | 2 hp |
| — at 460/480 V rated value | 3 hp |
| — at 575/600 V rated value | 5 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| acaign of the tuse mit | |

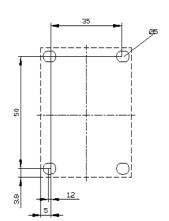
| for short-circuit protection of the main circuit | |
|---|--|
| — with type of coordination 1 required | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| — with type of assignment 2 required | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) |
| for short-circuit 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 % |

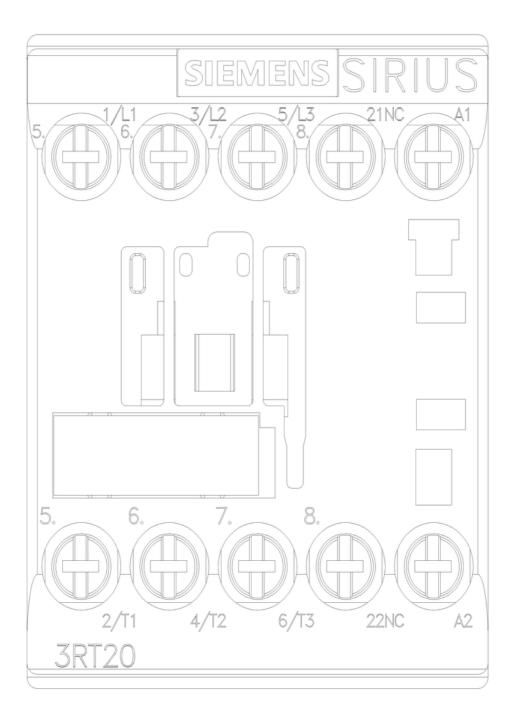
| failure rate [FIT] with lo | w demand rate according | o SN 31920 | 100 FIT | | | |
|---------------------------------------|--|----------------|------------|---------------------------|---|---|
| T1 value for proof test | interval or service life acco | | 20 a | | | |
| 61508 | the frent eccerding 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 |
| | | | | | | |

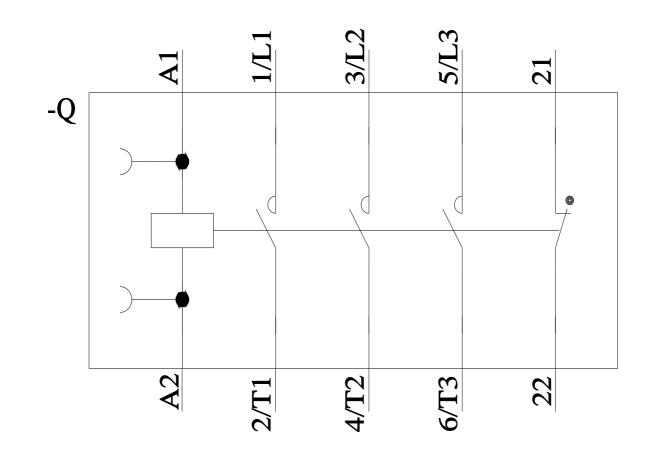
| | ns has decided to exit the Russian market (see here). press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business |
|---------|--|
| Please | ns is working on the renewal of the current EAC certificates. contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an levant market (other than the sanctioned EAEU member states Russia or Belarus). |
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| | y Mall (Online ordering system) nall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-1AF02 |
| | line generator upport.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1AF02 |
| | Support (Manuals, Certificates, Characteristics, FAQs,) |
| | database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) ww.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1AF02⟨=en |
| | support industry siemens.com/cs/ww/en/ps/3RT2015-1AF02/char |
| | r characteristics (e.g. electrical endurance, switching frequency) ww.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1AF02&objecttype=14&gridview=view1 |











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