SIEMENS

Data sheet

3RT2038-1CL24-3MA0



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, captive auxiliary switch

| product brand name SiRUS product type designation 9wer contactor product type designation 3R12 Contract of \$2 size of contactor \$2 ifunction module for communication No - durating switch No power loss [W] for rated value of the current * - et AC in hot operating state per pole 5.7 W - et AC in hot operating state per pole 5.7 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 auxiliary circuit rated value 690 V - of auxiliary circuit rated value 64 KV - of auxiliary circuit rated value 64 V - of auxiliary circuit rated value 10.00 V | | |
|--|---|-----------------------------|
| product type designation 3RT2 General technical data | product brand name | SIRIUS |
| Concrait technical data S2 size of contactor S2 product extension No • function module for communication No • auxiliary switch No ower loss [W] for rated value of the current - • at AC in hot operating state 17.1 W • at AC in hot operating state projole 5.7 W • without load current share typical 7.2 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 rated value 64 V • of main circuit rated value 64 V • of main circuit rated value 64 V • of auxiliary circuit rated value 100 V • at AC 9.8g / 5 ms, 6.5g / 10 ms • at AC 15.3g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch | product designation | Power contactor |
| size of contactor §2 product extension No • function module for communication No • auxiliary switch No power loss [W] for rated value of the current 17.1 W • at AC in hot operating state per pole 5.7 W • without load current share typical 17.2 W Insulation voltage 690 V • of main circult with degree of pollution 3 rated value 690 V • of main circult with degree of pollution 3 rated value 690 V • of main circult with degree of pollution 3 rated value 690 V • of main circult with degree of pollution 3 rated value 690 V • of main circult ated value 6 kV • of main circult ated value 6 kV • of auxiliary circult rated value 6 kV • of auxiliary circult rated value 6 kV • of auxiliary circult rated value 6 kV • of auxiliary solution go EN 60947-1 400 V shock resistance with sine pulse 15.3g / 5 ms, 6.5g / 10 ms • at AC 15.3g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 60068-2.20< | product type designation | 3RT2 |
| product extension No • function module for communication No • auxillary switch No • auxillary switch No • at AC in hot operating state 17.1 W • at AC in hot operating state per pole 5.7 W • without load current share typical 17.2 W Insulation voltage 600 V • of main circut with degree of pollution 3 rated value 690 V • of main circut rated value 690 V • of main circut rated value 64V • of main circut rated value 6kV • of main circut rated value 6kV • of main circut rated value 6kV • of main contacts according to EN 60947-1 5k0K • at AC 9.8g / 5 ms, 6.5g / 10 ms • at AC 15.3g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized 10000 000 auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized 00 auxiliary switch block typical 00 | General technical data | |
| • function module for communication No • auxiliary switch No power loss [W] for rated value of the current - • at AC in hot operating state 17.1 W • at AC in hot operating state per pole 5.7 W • without load current share typical 17.2 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 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 10 V • of auxiliary circuit rated value 9 kg / 5 ms, 6.5g / 10 ms shock resistance with sine pulse 10 000 000 • at AC 15.3g / 5 ms, 10.1g / 10 ms reference code according to IEC 81346-2 Q Substance Prohibitance (Date) | size of contactor | S2 |
| exakilary switch No power loss [W] for rated value of the current at AC in hot operating state T.1 W at AC in hot operating state per pole S.7 W without load current share typical T.2 W insulation voltage of main circuit with degree of pollution 3 rated value 690 V state value 690 V state value 690 V 61 williary circuit with degree of pollution 3 rated value 600 V 61 williary circuit rated value 64 kV 61 williary circuit rated value 6 kV 61 williary circuit rated value 6 kV 94 v 94 v | product extension | |
| power loss [W] for rated value of the current I at AC in hot operating state per pole 5.7 W at AC in hot operating state per pole 5.7 W without load current share typical 17.2 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 surge voltage resistance 6 kV of auxiliary circuit rated value 6 kV of auxiliary suiter block typical 000 V shock resistance at rectangular impulse 5 (3 / 5 ms, 6.5 / 10 ms at AC 9.8 g/ 5 ms, 6.5 g/ 10 ms shock resistance with sine pulse 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 | function module for communication | No |
| • at AC in hot operating state 17.1 W • at AC in hot operating state per pole 5.7 W • without load current share typical 17.2 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 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 circuit rated value 6 kV • at AC 9.8g / 5 ms, 6.5g / 10 ms shock resistance with sine pulse 15.3g / 5 ms, 10.1g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 installation attitude at height above sea level maximum </td <td>auxiliary switch</td> <td>No</td> | auxiliary switch | No |
| • at AC in hot operating state per pole 5.7 W • without load current share typical 17.2 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 690 V • of main circuit with degree of pollution 3 rated value 68 V • of main circuit with degree of pollution separation between coll and main contacts according to EN 60947-1 400 V * at AC 9.8g / 5 ms, 6.5g / 10 ms • at AC 9.8g / 5 ms, 6.5g / 10 ms • at AC 9.8g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 17.2 W insulation voltage 600 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 690 V surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV out a main constate according to EN 60947-1 400 V shock resistance at rectangular impulse 9.8g / 5 ms, 6.5g / 10 ms • at AC 9.8g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added 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 10 001/2014 Anbient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -55 +60 °C • during storage -55 +60 °C <t< td=""><td> at AC in hot operating state </td><td>17.1 W</td></t<> | at AC in hot operating state | 17.1 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 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 coll and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 9.8g / 5 ms, 6.5g / 10 ms • at AC 9.8g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) 10 000 000 • of contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient temperature - • during operation -25 +60 °C • during storage -25 +60 °C • during storage -25 +60 °C • during storage -25 +60 °C | at AC in hot operating state per pole | 5.7 W |
| • of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse400 V• at AC9.8g / 5 ms, 6.5g / 10 msshock resistance with sine pulse-• at AC9.8g / 5 ms, 10.1g / 10 msmechanical service life (operating cycles)10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added electronically optimized 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 selver maximum2000 mambient conditions-25 +60 °C• during operation-25 +60 °C• during storage-25 +60 °C• during storage-25 +60 °C• faltive humidity minimum10 %relative humidity minimum95 % | without load current share typical | 17.2 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 • at AC 9.8g / 5 ms, 6.5g / 10 ms • at AC 15.3g / 5 ms, 10.1g / 10 ms • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added sectonically optimized auxiliary switch block typical 10 000 000 • of the contactor with added sectonically optimized auxiliary switch block typical 10 000 000 • of the contactor with added sectonically optimized auxiliary switch block typical 10 000 000 Installation attritude at height above se | insulation voltage | |
| surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxillary 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 9.8g / 5 ms, 6.5g / 10 ms • at AC 9.8g / 5 ms, 6.5g / 10 ms shock resistance with sine pulse 15.3g / 5 ms, 10.1g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 2000 m 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 9.8g / 5 ms, 6.5g / 10 ms • at AC 9.8g / 5 ms, 6.5g / 10 ms shock resistance with sine pulse - • at AC 15.3g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) - • of ontactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Ambient conditions 2 000 m ambient temperature - • during operation -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 maximum 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 9.8g / 5 ms, 6.5g / 10 ms • at AC 9.8g / 5 ms, 6.5g / 10 ms shock resistance with sine pulse 9.8g / 5 ms, 10.1g / 10 ms • at AC 15.3g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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) 2000 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 35 % maximum <td< td=""><td>surge voltage resistance</td><td></td></td<> | surge voltage resistance | |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse at AC 9.8g / 5 ms, 6.5g / 10 ms shock resistance with sine pulse at AC 15.3g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) of contactor typical 10 000 000 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 10 000 000 feference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature during operation -25 +60 °C ext +60 °C stallation altitude at 55 °C according to IEC 60068-2-30 maximum | of main circuit rated value | 6 kV |
| coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 9.8g / 5 ms, 6.5g / 10 ms shock resistance with sine pulse • at AC 15.3g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions 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 AC9.8g / 5 ms, 6.5g / 10 msshock resistance with sine pulse | | 400 V |
| shock resistance with sine pulse i5.3g / 5 ms, 10.1g / 10 ms mechanical service life (operating cycles) i0 000 000 of contactor typical 10 000 000 of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 of the contactor with added auxiliary switch block typical 10 000 000 of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C of during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit | shock resistance at rectangular impulse | |
| • at AC15.3g / 5 ms, 10.1g / 10 msmechanical service life (operating cycles) • of contactor typical10 000 000• of contactor with added electronically optimized 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 typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor during to tec 610 contactor0000 000• during operation • during storage-25 +60 °C• during storage-55 +80 °C• relative humidity minimum10 %• prelative humidity at 55 °C according to IEC 60068-2-30 maximum95 %• Main circuit | • at AC | 9.8g / 5 ms, 6.5g / 10 ms |
| mechanical service life (operating cycles) 10 000 000 • of 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 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit | shock resistance with sine pulse | |
| • of contactor typical10 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)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 % | • at AC | 15.3g / 5 ms, 10.1g / 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 of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage 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) 10/01/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % maximum 95 % | of contactor typical | 10 000 000 |
| reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % | · · | 5 000 000 |
| Substance Prohibitance (Date) 10/01/2014 Ambient conditions 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 % | Substance Prohibitance (Date) | 10/01/2014 |
| ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit | Ambient conditions | |
| • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % | 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 10 % | during operation | -25 +60 °C |
| relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Main circuit 95 % | during storage | -55 +80 °C |
| maximum | 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 | 90 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 90 A |
| — up to 690 V at ambient temperature 60 $^\circ C$ rated value | 80 A |
| • at AC-3 | |
| — at 400 V rated value | 80 A |
| — at 500 V rated value | 80 A |
| — at 690 V rated value | 58 A |
| • at AC-3e | |
| — at 400 V rated value | 80 A |
| — at 500 V rated value | 80 A |
| — at 690 V rated value | 58 A |
| at AC-4 at 400 V rated value | 55 A |
| at AC-5a up to 690 V rated value | 79.2 A |
| at AC-5b up to 400 V rated value | 66.4 A |
| • at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 70 A |
| — up to 400 V for current peak value n=20 rated value | 70 A |
| — up to 500 V for current peak value n=20 rated value | 70 A |
| — up to 690 V for current peak value n=20 rated value | 58 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 46.7 A |
| — up to 400 V for current peak value n=30 rated value | 46.7 A |
| — up to 500 V for current peak value n=30 rated value | 46.7 A |
| — up to 690 V for current peak value n=30 rated value | 46.7 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 35 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 30 A |
| at 690 V rated value | 24 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 23 A |
| — at 110 V rated value | 4.5 A |
| — at 220 V rated value | 1A |
| — at 440 V rated value | 0.4 A |
| — at 600 V rated value | 0.25 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 45 A |
| — at 110 V rated value | 45 A |
| — at 220 V rated value | 5 A |
| — at 440 V rated value | 1A |
| — at 600 V rated value | 0.8 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 55 A |
| — at 110 V rated value | 55 A |
| — at 220 V rated value | 45 A |
| — at 440 V rated value | 2.9 A |
| — at 600 V rated value | 1.4 A |
| • at 1 current path at DC-3 at DC-5 | |
| | |

| — at 24 V rated value | 35 A |
|---|---|
| — at 60 V rated value | 6 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.1 A |
| — at 600 V rated value | 0.06 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 45 A |
| — at 110 V rated value | 25 A |
| — at 220 V rated value | 5 A |
| — at 440 V rated value | 0.27 A |
| — at 600 V rated value | 0.16 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 55 A |
| — at 110 V rated value | 55 A |
| — at 220 V rated value | 25 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.35 A |
| operating power | |
| at AC-2 at 400 V rated value | 37 kW |
| • at AC-3 | |
| - at 230 V rated value | 22 kW |
| — at 200 V rated value | 37 kW |
| | 37 KW |
| - at 500 V rated value | |
| — at 690 V rated value | 45 kW |
| • at AC-3e | |
| - at 230 V rated value | 22 kW |
| — at 400 V rated value | 37 kW |
| — at 500 V rated value | 37 kW |
| — at 690 V rated value | 45 kW |
| operating power for approx. 200000 operating cycles at AC- 4 | |
| at 400 V rated value | 15.8 kW |
| at 690 V rated value | 21.8 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 27.8 kVA |
| • up to 400 V for current peak value n=20 rated value | 48.4 kVA |
| • up to 500 V for current peak value n=20 rated value | 60.6 kVA |
| | 69.3 kVA |
| up to 690 V for current peak value n=20 rated value | 00.0 KVA |
| operating apparent power at AC-6a | 18.6 kV/A |
| up to 230 V for current peak value n=30 rated value | 18.6 kVA |
| • up to 400 V for current peak value n=30 rated value | 32.3 kVA |
| up to 500 V for current peak value n=30 rated value | 40.4 kVA |
| up to 690 V for current peak value n=30 rated value | 55.8 kVA |
| short-time withstand current in cold operating state up to 40 °C | |
| limited to 1 s switching at zero current maximum | 1 298 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 898 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 640 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 414 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 333 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| • at AC | 5 000 1/h |
| operating frequency | |
| at AC-1 maximum | 700 1/h |
| | 350 1/h |
| • at AC-2 maximum | |
| • at AC-3 maximum | 500 1/h |
| at AC-3e maximum | 500 1/h |
| at AC-4 maximum | 150 1/h |
| Control circuit/ Control | |

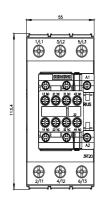
| type of voltage of the control supply voltage | AC |
|---|---|
| control supply voltage at AC | |
| • at 50 Hz rated value | 230 V |
| • at 60 Hz rated value | 230 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.85 1.1 |
| design of the surge suppressor | with varistor |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 210 VA |
| • at 60 Hz | 188 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.69 |
| • at 60 Hz | 0.65 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 17.2 VA |
| • at 60 Hz | 16.5 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.36 |
| • at 60 Hz | 0.39 |
| closing delay | |
| • at AC | 10 80 ms |
| opening delay | |
| • at AC | 10 18 ms |
| arcing time | 10 20 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts instantaneous | 2 |
| contact | |
| number of NO contacts for auxiliary contacts instantaneous contact | 2 |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| at 230 V rated value | 6 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 | 6 A |
| • at 48 V rated value | 2 A |
| • at 60 V rated value | 2 A |
| at 110 V rated value | 1A |
| at 125 V rated value | 0.9 A |
| at 220 V rated value | 0.3 A |
| • at 600 V rated value | 0.1 A |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| JL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 65 A |
| | 62 A |
| at 600 V rated value | 02 A |
| | |
| yielded mechanical performance [hp] • for single-phase AC motor | |

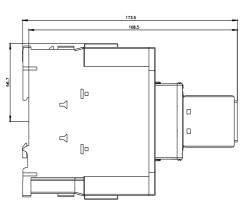
| — at 110/120 V rated value | 5 hp | | |
|---|---|--|--|
| — at 230 V rated value | 15 hp | | |
| for 3-phase AC motor | | | |
| — at 200/208 V rated value | 20 hp | | |
| — at 220/230 V rated value | 25 hp | | |
| — at 460/480 V rated value | 50 hp | | |
| — at 575/600 V rated value | 60 hp | | |
| 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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) | | |
| — with type of assignment 2 required | gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) | | |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) | | |
| Installation/ mounting/ dimensions | | | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and | | |
| | backward by +/- 22.5° on vertical mounting surface | | |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 | | |
| side-by-side mounting | Yes | | |
| height | 114 mm | | |
| width | 55 mm | | |
| depth | 174 mm | | |
| required spacing | | | |
| with side-by-side mounting | | | |
| — forwards | 10 mm | | |
| — upwards | 10 mm | | |
| — downwards | 10 mm | | |
| — at the side | 0 mm | | |
| for grounded parts | | | |
| — forwards | 10 mm | | |
| — upwards | 10 mm | | |
| — at the side | 6 mm | | |
| — downwards | 10 mm | | |
| • for live parts | | | |
| - forwards | 10 mm | | |
| — upwards | 10 mm | | |
| — downwards | 10 mm | | |
| — at the side | | | |
| | 6 mm | | |
| Connections/ Terminals | | | |
| type of electrical connection | | | |
| for main current circuit | screw-type terminals | | |
| for auxiliary and control circuit | screw-type terminals | | |
| at contactor for auxiliary contacts | Screw-type terminals | | |
| of magnet coil | Screw-type terminals | | |
| type of connectable conductor cross-sections for main contacts | | | |
| solid or stranded | 2x (1 35 mm²), 1x (1 50 mm²) | | |
| finely stranded with core end processing | 2x (1 25 mm²), 1x (1 35 mm²) | | |
| connectable conductor cross-section for main contacts | | | |
| finely stranded with core end processing | 1 35 mm² | | |
| connectable conductor cross-section for auxiliary contacts | | | |
| solid or stranded | 0.5 2.5 mm ² | | |
| finely stranded with core end processing | 0.5 2.5 mm ² | | |
| type of connectable conductor cross-sections | | | |
| for auxiliary contacts | | | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | | |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | | |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) | | |
| AWG number as coded connectable conductor cross section | | | |
| • for main contacts | 18 1 | | |
| | | | |

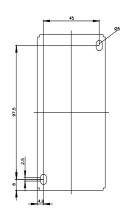
| for auxiliary con | itacts | | 20 14 | | | |
|---|---|---|--|--|----------------------------------|--|
| afety related data | | | | | | |
| product function | | | | | | |
| | ccording to IEC 60947-4-1 | | Yes | | | |
| | operation according to IEC | 60947-5-1 | No | | | |
| | | | 1 000 000 | | | |
| B10 value with high demand rate according to SN 31920 proportion of dangerous failures | | | | | | |
| | d rate according to SN 319 | 20 | 40 % | | | |
| | nd rate according to SN 319 | | 73 % | | | |
| | ow demand rate according | | 100 FIT | | | |
| | interval or service life acco | | 20 a | | | |
| 61508 | | | 200 | | | |
| protection class IP of | n the front according to II | EC 60529 | IP20 | | | |
| touch protection on t | the front according to IEC | 60529 | finger-safe, for vertical conta | ct from the front | | |
| suitability for use | | | | | | |
| safety-related system | witching OFF | | Yes | | | |
| ertificates/ approvals | ; | | | | | |
| General Product App | proval | | | | | |
| () E | | <u>Confirmatio</u> | | <u>KC</u> | EHC | |
| EMC | Functional Safety/Safety of Ma- chinery | Declaration of | Conformity | Test Certificates | | |
| RCM | Type Examination Cer- tificate | CE EG-Konf. | UK CA | <u>Type Test Certific-</u> ates/Test Report | Special Test Certific- ate | |
| Marine / Shipping | | | | | | |
| ABS | BUREAU VERITAS | | Lloyd's Register uis | PRS | RINA | |
| Marine / Shipping | other | | Railway | Dangerous Good | Environment | |
| RMRS RMRS | <u>Confirmation</u> | <u>Confirmatio</u> | n <u>Vibration and Shock</u> | Transport Information | Environmental Con- firmations | |
| https://press.siemens.r Siemens is working of Please contact your lo EAC relevant market (Information on the pa https://support.industry Information- and Dow https://www.siemens.c Industry Mall (Online https://mall.industry.sie Cax online generator http://support.automati Service&Support (Ma | other than the sanctioned E ackaging y.siemens.com/cs/ww/en/vii wnloadcenter (Catalogs, E com/ic10 e ordering system) emens.com/mall/en/en/Cata r ion.siemens.com/WW/CAX anuals, Certificates, Chara | existemens-wind-do ent EAC certifica tatus of validity of AEU member sta ew/109813875 Brochures,) alog/product?mlfbe order/default.aspx acteristics, FAQs | tes. the EAC certification if you inte tes Russia or Belarus). =3RT2038-1CL24-3MA0 ?lang=en&mlfb=3RT2038-1CL ,) | | ly these products to an | |
| Image database (pro | | on drawings, 3D ı | - <u>-3MAU</u> nodels, device circuit diagra 2038-1CL24-3MA0⟨=en | ms, EPLAN macros,) | | |
| | | | | | hongo without potic | |

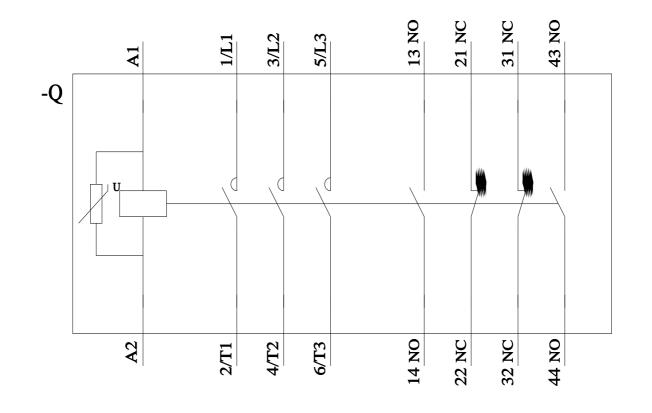
6/30/2023

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1CL24-3MA0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-1CL24-3MA0&objecttype=14&gridview=view1









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