SIEMENS

Data sheet

3RT2037-1AP00



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2 $\,$

| product brand name SiRUS product bis designation 9 ower contactor product type designation 9812 Central tochnical data 52 product type designation No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 11.4 W • at AC in hot operating state 11.4 W • at AC in hot operating state per pole 3.8 W • without load current share typical 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 • of auxiliary circuit with degree of pollution 3 rated value 600 V • of auxiliary circuit rated value 64 V • of canic current site publes 63 V • of canic current of (operating cycles) <th></th> <th></th> | | |
|--|---|-----------------------------|
| product type designation 3RT2 General technical data | product brand name | SIRIUS |
| General technical data S2 size of contactor S2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state probe 3.8 W • without load current share typical 6W • 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 main circuit rated value 64 V • of main circuit rated value 64 V • of auxiliary circuit rated value 60 V • of contactor with sine pulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 11.8g / 5 ms, 7.4g / 10 ms mechanical sorvice life (operating cycles) 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 | product designation | Power contactor |
| size of contactor §2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 11.4 W • at AC in hot operating state 11.4 W • at AC in hot operating state per pole 3.8 W • without load current share typical 6W • of main circult with degree of pollution 3 rated value 690 V • of auxiliary circuit ated value 690 V • of auxiliary circuit ated value 60 V • of auxiliary circuit rated value 64V maximum permissible voltage for protective separation between circuit nated value 64V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse • 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 0 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 refer | product type designation | 3RT2 |
| product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 114 W • at AC in hot operating state 114 W • at AC in hot operating state per pole 3.8 W • without load current share typical 6 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 690 V • of main circuit rated value 64V • of and main contacts according to EN 60947-1 64V • at AC 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch b | General technical data | |
| • function module for communication No • auxiliary switch Yes power loss [V] for rated value of the current + • at AC in hot operating state 11.4 VV • at AC in hot operating state per pole 3.8 VV • without load current share typical 6VV 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 64V • of main circuit ated value 64V • of main circuit ated value 64V • of auxiliary circuit rated value 180 V • ot auxiliary switch block typical 10 000 000 <th>size of contactor</th> <th>S2</th> | size of contactor | S2 |
| excillary switch Yes power loss [W] for rated value of the current II.4 W • at AC in hot operating state 11.4 W • at AC in hot operating state per pole 3.8 W • without load current share typical 6 W • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary orcuit rated value 6 kV • of auxiliary orcuit rated value 6 kV • at AC 11.8 g / 5 ms, 7.4 g / 10 ms shock resistance at rectangular impulse 10 000 000 • at AC 11.8 g / 5 ms, 7.4 g / 10 ms mechanical service life (operating cycles) 10 000 000 • of contactor typical 10 000 000 • of the contactor with added aculiary switch block typical 10 000 000 • of the contactor with added aculiary switch block typical 10 000 000 • of the contactor with added aculitary switch block typical 10 000 000 <th>product extension</th> <th></th> | product extension | |
| power loss [W] for rated value of the current Intervent • at AC in hot operating state 11.4 W • at AC in hot operating state prole 3.8 W • without load current share typical 6 W insulation voltage 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 auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 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 accord | function module for communication | No |
| • at AC in hot operating state 11.4 W • at AC in hot operating state per pole 3.8 W • without load current share typical 6 W insulation voltage 6 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 • 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 auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 10 000 000 • at AC 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 selectronically optimized auxiliary switch bl | auxiliary switch | Yes |
| • at AC in hot operating state per pole 3.8 W • without load current share typical 6 W insulation voltage 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 6 kV • of main circuit rated value 6 kV • of main circuit with degree of pollution 8 rated value 6 kV • of main circuit with degree of pollution 8 rated value 6 kV • of auxiliary circuit rated value 6 kV • of and main contacts according to EN 60947-1 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms • et AC 18.5g / 5 ms, 11.6g / 10 ms • of contactor typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block | power loss [W] for rated value of the current | |
| • without load current share typical 6 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 • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 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 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with addee electronicall | at AC in hot operating state | 11.4 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 690 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 10 ms • of contactor hytical 10 000 000 • of the contactor with added electronically optimized 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 | at AC in hot operating state per pole | 3.8 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 60847-1 400 V shock resistance at rectangular impulse 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added suxiliary switch block typical 10 000 000 • of the contactor with added suxiliary switch block typical 10 000 000 reference code according to EEC 81346-2 Q Substance Prohibitance (Date) 2000 m ambient temperature -25 +60 °C • during storage -25 +60 °C <t< th=""><td> without load current share typical </td><td>6 W</td></t<> | without load current share typical | 6 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 • at AC 400 V • at AC 18.5g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 2 000 m ambient conditions 2 000 m • during operation -25 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • felative humidity a | insulation voltage | |
| surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 operation -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 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 • at AC 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 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 • 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 n auxiliary sitch block typical 0 000 n • of the contactor with added auxiliary switch block typical 0 000 n | 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 11.8g / 5 ms, 7.4g / 10 ms • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 11.8g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of 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 EC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m • during storage -25 +60 °C • during storage -55 +80 °C • relative humidity at 55 °C according to IEC 60068-2-30 10 % | 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 shock resistance with sine pulse at AC at AC 18.5g / 5 ms, 7.4g / 10 ms mechanical service life (operating cycles) of contactor typical 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 10 000 000 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 during operation -25 +60 °C midsing storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 % | of main circuit rated value | 6 kV |
| coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 0 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 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 -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % | of auxiliary circuit rated value | 6 kV |
| • at AC11.8g / 5 ms, 7.4g / 10 msshock resistance with sine pulse | | 400 V |
| shock resistance with sine pulse 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 o of contactor typical 10 000 000 o of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 o of the contactor with added auxiliary switch block typical 10 000 000 of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions 2 000 m installation allitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C o during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % | shock resistance at rectangular impulse | |
| • at AC18.5g / 5 ms, 11.6g / 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 typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2 000 m• ambient conditions2 000 m• installation altitude at height above sea level maximum2 000 m• ambient temperature • during operation • during storage-25 +60 °C• during storage relative humidity minimum10 %• Telative humidity at 55 °C according to IEC 60068-2-30 maximum95 % | • at AC | 11.8g / 5 ms, 7.4g / 10 ms |
| mechanical service life (operating cycles) 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +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 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 % | • at AC | 18.5g / 5 ms, 11.6g / 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)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C -55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 % | 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)10/01/2014Ambient 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 %Patient conditions95 % | 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 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 % | 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 % Main circuit | during storage | -55 +80 °C |
| maximum Main circuit | relative humidity minimum | 10 % |
| | | 95 % |
| number of poles for main current circuit 3 | Main circuit | |
| | number of poles for main current circuit | 3 |

| number of NO contacts for main contacts | 3 |
|--|--------------------|
| operating voltage | |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| • at AC-1 at 400 V at ambient temperature 40 °C rated | 80 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 80 A |
| — up to 690 V at ambient temperature 60 °C rated | 70 A |
| value | |
| • at AC-3 | |
| — at 400 V rated value | 65 A |
| — at 500 V rated value | 65 A |
| — at 690 V rated value | 47 A |
| • at AC-3e | |
| — at 400 V rated value | 65 A |
| — at 500 V rated value | 65 A |
| — at 690 V rated value | 47 A |
| at AC-4 at 400 V rated value | 55 A |
| at AC-5a up to 690 V rated value | 70.4 A |
| at AC-5b up to 400 V rated value at AC-6a | 53.9 A |
| | 56.9 A |
| — up to 230 V for current peak value n=20 rated value | |
| — up to 400 V for current peak value n=20 rated value | 56.9 A 56.9 A |
| up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value | 47 A |
| • at AC-6a | 4/ A |
| up to 230 V for current peak value n=30 rated value | 38 A |
| — up to 200 V for current peak value n=30 rated value | 38 A |
| — up to 500 V for current peak value n=30 rated value | 38 A |
| — up to 690 V for current peak value n=30 rated value | 38 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 25 mm ² |
| value | |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 28 A |
| at 690 V rated value | 22 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 23 A |
| — at 110 V rated value | 4.5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.4 A |
| — at 600 V rated value | 0.25 A |
| • with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 45 A |
| — at 110 V rated value | 45 A |
| — at 220 V rated value | 5 A |
| — at 440 V rated value | 1 A |
| — at 600 V rated value | 0.8 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 55 A |
| — at 110 V rated value | 55 A |
| — at 220 V rated value | 45 A |
| — at 440 V rated value | 2.9 A |
| — at 600 V rated value | 1.4 A |
| at 1 current path at DC-3 at DC-5 | |

| — at 24 V rated value | 35 A |
|---|---|
| — at 60 V rated value | 6 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.1 A |
| — at 600 V rated value | 0.06 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 45 A |
| — at 110 V rated value | 25 A |
| — at 220 V rated value | 5A |
| | |
| - 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 | 30 kW |
| • at AC-3 | |
| — at 230 V rated value | 18.5 kW |
| — at 400 V rated value | 30 kW |
| — at 500 V rated value | 37 kW |
| — at 690 V rated value | 37 kW |
| • at AC-3e | |
| - at 230 V rated value | 18.5 kW |
| | |
| — at 400 V rated value | 30 kW |
| — at 500 V rated value | 37 kW |
| — at 690 V rated value | 37 kW |
| operating power for approx. 200000 operating cycles at AC- 4 | |
| at 400 V rated value | 14.7 kW |
| at 690 V rated value | 20 kW |
| | 20 KW |
| operating apparent power at AC-6a | 00.013/4 |
| up to 230 V for current peak value n=20 rated value | 22.6 kVA |
| | 39.4 kVA |
| • up to 400 V for current peak value n=20 rated value | |
| | 49.2 kVA |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value | |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value | 49.2 kVA |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value | 49.2 kVA |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a | 49.2 kVA 56.1 kVA |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value | 49.2 kVA 56.1 kVA 15.1 kVA |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value | 49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value | 49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C | 49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value | 49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA |
| up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C | 49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA 1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value |
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| | - |
|---|---|
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |
| • at 50 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 |
| apparent pick-up power of magnet coil at AC • at 50 Hz | 190 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.72 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 16 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.37 |
| closing delay | |
| • at AC | 10 80 ms |
| opening delay | |
| • at AC | 10 18 ms |
| arcing time | 10 20 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts instantaneous contact | 1 |
| number of NO contacts for auxiliary contacts instantaneous contact | 1 |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| • at 230 V rated value | 10 A |
| • at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |
| • at 690 V rated value | 1 A |
| operational current at DC-12 | |
| • at 24 V rated value | 10 A |
| • at 48 V rated value | 6 A |
| • at 60 V rated value | 6 A |
| • at 110 V rated value | 3 A |
| • at 125 V rated value | 2 A |
| • at 220 V rated value | 1 A |
| • at 600 V rated value | 0.15 A |
| operational current at DC-13 | |
| • at 24 V rated value | 10 A |
| • at 48 V rated value | 2 A |
| • at 60 V rated value | 2 A |
| • at 110 V rated value | 1A |
| at 125 V rated value | 0.9 A |
| at 220 V rated value | 0.3 A |
| at 600 V rated value | 0.1 A |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | 65 A |
| at 480 V rated value at 600 V rated value | 65 A |
| at 600 V rated value | 52 A |
| yielded mechanical performance [hp] • for single-phase AC motor | |
| Ior single-phase AC motor at 110/120 V rated value | 5 hn |
| — at 230 V rated value | 5 hp 10 hp |
| for 3-phase AC motor | 10 hp |
| - at 200/208 V rated value | 20 hp |
| — at 220/200 V rated value | 20 hp |
| — at 460/480 V rated value | 50 hp |
| — at 575/600 V rated value | 50 hp |
| | 00 llp |

| contact rating of auxiliary contacts according to UL | A600 / P600 |
|---|---|
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| - with type of coordination 1 required | gG: 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: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (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 |
| for the size of the st | 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 width | 114 mm 55 mm |
| depth | 130 mm |
| required spacing | 130 mm |
| 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 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 mm ²), 2x (0.75 2.5 mm ²) |
| — finely stranded with core end processing | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) |
| AWG number as coded connectable conductor cross section | |
| • for main contacts | 18 1 |
| for auxiliary contacts | 20 14 |
| Safety related data | |
| product function | |
| mirror contact according to IEC 60947-4-1 | Yes |
| positively driven operation according to IEC 60947-5-1 | No |
| suitability for use safety-related switching OFF | Yes |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |

| with high demand ailure rate [FIT] with low | | | | | |
|---|---|---------------------|---------------------------------|---|-----------------------------|
| ailure rate [FIT] with low | ate according to SN 3192 | 20 4 | 0 % | | |
| | rate according to SN 319 | 20 7 | 3 % | | |
| | demand rate according t | o SN 31920 1 | 00 FIT | | |
| 1 value for proof test int 1508 | terval or service life acco | rding to IEC 2 | 0 a | | |
| protection class IP on the front according to IEC 60529 | | EC 60529 | IP20 | | |
| ouch protection on the | e front according to IEC | 60529 fi | nger-safe, for vertical contact | from the front | |
| rtificates/ approvals | | | | | |
| General Product Appro | oval | | | | |
| (SP) | | <u>Confirmation</u> | (UL) | KC | EHC |
| EMC | Functional Safety/Safety of Ma- chinery | Declaration of Co | nformity | Test Certificates | |
| RCM | <u>Type Examination Cer-</u> tificate | CE EG-Konf. | UK CA | Type Test Certific- ates/Test Report | Special Test Certifi ate |
| /larine / Shipping | | | | | |
| | B D R E A U VERITAS | | Lloyds Register us | PRS | RINA |
| ABS | | | | | |
| ABS Marine / Shipping | other | | Railway | Dangerous Good | Environment |

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

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AP00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AP00

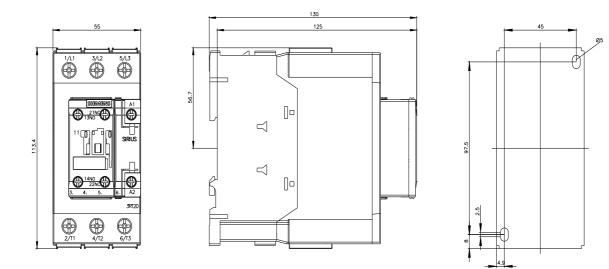
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

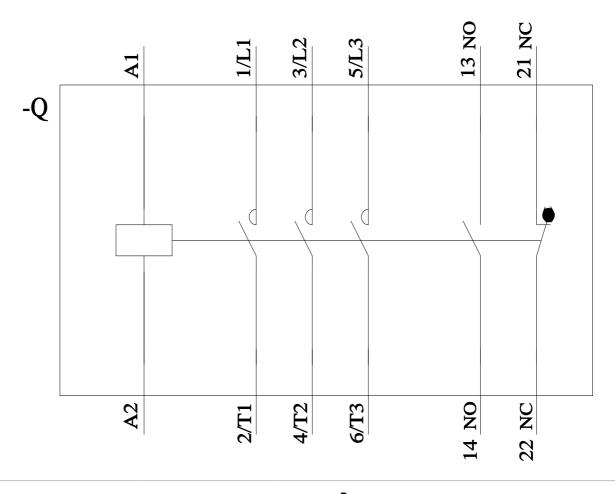
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-1AP00&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AP00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AP00&objecttype=14&gridview=view1





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