SIEMENS

Data sheet 3RT2046-1AN20



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

| product designation 9round type designation 9round 19round 19r | product brand name | SIRIUS |
|--|---|----------------------------|
| product type designation General technical data Staze of contactor Sa product extension • function module for communication • function module for communication • function module for communication • function module for rated value of the current • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit value • of auxiliary circuit value • of auxili | • | |
| Size of contactor product extension • function module for communication • auxiliary switch • auxiliary switch • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary neministible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at AC • at AC • at AC • of contactor with sine pulse • at AC • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the conta | | |
| size of contactor product extension • function module for communication • function module for communication • function module for communication • auxiliary switch • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of main circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary switch blage for protective separation between oil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at | General technical data | |
| • function module for communication • auxiliary switch • auxiliary switch • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit vated value • of auxiliary circuit rated value • at AC • | size of contactor | \$3 |
| • function module for communication • auxiliary switch • auxiliary switch • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit vated value • of auxiliary circuit rated value • at AC • | | |
| • auxillary switch power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of auxillary circuit rated value • of main circuit rated value • of auxillary switch stace value • of auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch | • | No |
| at AC in hot operating state prole 6.6 W • at AC in hot operating state prole 6.6 W • without load current share typical 25 W Insulation voltage • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance • of main circuit rated value 8 K • of auxiliary circuit rated value 6 k • of main circuit rated value 8 K • of auxiliary circuit rated value 9 K • at AC 8 • at AC 9 • at AC 9 • at AC 9 • of contactor with sine pulse 9 • at AC 9 • of contactor typical 10 • of the contactor with added electronically optimized 9 • of the contactor with added electronically optimized 9 • 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 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 | auxiliary switch | Yes |
| at AC in hot operating state per pole without load current share typical without load current share typical at AC in hot operating state per pole without load current share typical at AC in hot operating state per pole of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of main circuit rated value of auxiliary circuit rated value of at AC at A | · | |
| insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of auxiliary sircuit rated value of the contactor with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized aux | at AC in hot operating state | 19.8 W |
| insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance of main circuit rated value 8 kV of auxiliary circuit rated value 8 kV of auxiliary circuit rated value 8 kV of auxiliary circuit rated value 8 kV 6 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC 10.3g / 5 ms, 6g / 10 ms shock resistance with sine pulse of contactor typical 10 000 000 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 reference code according to EC 81346-2 Q Substance Prohibitance (Date) 03/01/2017 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature of during storage -55 +60 °C -6 during storage -6 during storage -6 caccording to IEC 60068-2-30 maximum Main circuit Main circuit Main circuit 10 000 V 10 000 V 10 000 V 10 000 V 10 000 000 10 000 000 10 000 000 10 000 00 | at AC in hot operating state per pole | 6.6 W |
| of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC 10.3g / 5 ms, 6g / 10 ms shock resistance with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor | without load current share typical | 25 W |
| of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated va | insulation voltage | |
| surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of avxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC 10.3g / 5 ms, 6, g / 10 ms shock resistance with sine pulse ot AC 16.3g / 5 ms, 10.g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor w | of main circuit with degree of pollution 3 rated value | 1 000 V |
| of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse oat AC 10.3g / 5 ms, 6.,g / 10 ms shock resistance with sine pulse oat AC 16.3g / 5 ms, 10.g / 10 ms mechanical service life (operating cycles) 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 contac | of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| of auxiliary circuit rated value maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse | surge voltage resistance | |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at AC • at AC • of contactor with sine pulse • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch bloc | of main circuit rated value | 8 kV |
| shock resistance at rectangular impulse at AC to at AC | of auxiliary circuit rated value | 6 kV |
| • at AC shock resistance with sine pulse • at AC 16.3g / 5 ms, 10.g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit | | 690 V |
| shock resistance with sine pulse | shock resistance at rectangular impulse | |
| at AC mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of the contactor with added auxiliary switch block typical 10 000 000 2000 03/01/2017 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature of during operation of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 03/01/2017 Ambient conditions installation altitude at height above sea level maximum 10 000 000 10 000 000 03/01/2017 Ambient conditions installation altitude at height above sea level maximum 10 000 000 10 000 000 10 000 000 10 000 00 | • at AC | 10.3g / 5 ms, 6,.g / 10 ms |
| mechanical service life (operating cycles) • 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 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) O3/01/2017 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -55 +60 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit | shock resistance with sine pulse | |
| of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature oduring operation during operation during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit 10 000 000 10 | • at AC | 16.3g / 5 ms, 10.g / 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 for the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature oduring operation -25 +60 °C oduring storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit 5 000 000 2 000 0 | mechanical service life (operating cycles) | |
| auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit | of contactor typical | 10 000 000 |
| reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit | | 5 000 000 |
| Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit | of the contactor with added auxiliary switch block typical | 10 000 000 |
| installation altitude at height above sea level maximum ambient temperature during operation during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit 2 000 m -25 +60 °C -25 +80 °C 10 % 95 % | reference code according to IEC 81346-2 | Q |
| installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit | Substance Prohibitance (Date) | 03/01/2017 |
| ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit | Ambient conditions | |
| during operation during storage telative humidity minimum maximum 10 % 10 %<td>installation altitude at height above sea level maximum</td><td>2 000 m</td> | installation altitude at height above sea level maximum | 2 000 m |
| • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit | ambient temperature | |
| relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Main circuit | during operation | -25 +60 °C |
| relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 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 | 1 000 V |
| at AC-3e rated value maximum | 1 000 V |
| operational current | |
| • at AC-1 at 400 V at ambient temperature 40 °C rated | 130 A |
| value | |
| • at AC-1 | |
| up to 690 V at ambient temperature 40 °C rated value | 130 A |
| — up to 690 V at ambient temperature 60 °C rated | 110 A |
| value | TIOA |
| • at AC-3 | |
| — at 400 V rated value | 95 A |
| — at 500 V rated value | 95 A |
| — at 690 V rated value | 78 A |
| — at 1000 V rated value | 30 A |
| • at AC-3e | |
| — at 400 V rated value | 95 A |
| — at 500 V rated value | 95 A |
| — at 690 V rated value | 78 A |
| — at 1000 V rated value | 30 A |
| at AC-4 at 400 V rated value | 80 A |
| at AC-5a up to 690 V rated value | 114 A |
| at AC-5b up to 400 V rated value | 95 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 84.4 A |
| — up to 400 V for current peak value n=20 rated value | 84.4 A |
| — up to 500 V for current peak value n=20 rated value | 84.4 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 | 56.3 A |
| — up to 400 V for current peak value n=30 rated value | 56.3 A |
| — up to 500 V for current peak value n=30 rated value | 56.3 A |
| — up to 690 V for current peak value n=30 rated value | 56.3 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 50 mm ² |
| value | |
| operational current for approx. 200000 operating cycles at | |
| AC-4 | |
| • at 400 V rated value | 42 A |
| at 690 V rated value | 30 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 100 A |
| — at 60 V rated value | 60 A |
| — at 110 V rated value | 9 A |
| — at 220 V rated value | 2 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.4 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 100 A |
| — at 60 V rated value | 100 A |
| — at 110 V rated value | 100 A |
| — at 220 V rated value | 10 A |
| — at 440 V rated value | 1.8 A |
| — at 600 V rated value | 1 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 100 A |
| — at 60 V rated value | 100 A |
| — at 110 V rated value | 100 A |
| — at 220 V rated value | 80 A |
| | 4.5 A |

| | — at 600 V rated value | 2.6 A |
|--|---|---|
| | • at 1 current path at DC-3 at DC-5 | |
| ### ### ### ### ### ### ### ### ### ## | — at 24 V rated value | 40 A |
| | — at 60 V rated value | 6 A |
| | — at 110 V rated value | 2.5 A |
| With 2 current paths in series at DC-3 at DC-5 | — at 220 V rated value | 1 A |
| with 2 current paths in series at DC-3 at DC-5 | — at 440 V rated value | 0.15 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 | 100 A |
| | — at 60 V rated value | 100 A |
| | — at 110 V rated value | 100 A |
| ■ with 3 current paths in series at DC-3 at DC-5 ■ at 24 V rated value ■ at 10 V rated value ■ at 10 V rated value ■ at 10 V rated value ■ at 220 V rated value ■ at 400 V rated value ■ at 60 V for current peak value n=30 rated value ■ at 60 V for current peak value | — at 220 V rated value | 7 A |
| with 3 current paths in series at DC-3 at DC-5 | — at 440 V rated value | 0.42 A |
| at 24 V rated value | | 0.16 A |
| | with 3 current paths in series at DC-3 at DC-5 | |
| | — at 24 V rated value | 100 A |
| at 220 V rated value | — at 60 V rated value | 100 A |
| operating power of the value | — at 110 V rated value | |
| Acc | — at 220 V rated value | 35 A |
| operating power at AC-2 at 400 V rated value at AC-3 — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — 37 kW operating power for approx. 200000 operating cycles at AC-4 4 at 400 V rated value operating apparent power at AC-6a • up to 230 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 • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 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 • 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 • 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 • up to 690 V for current peak value n=30 rat | — at 440 V rated value | 0.8 A |
| at AC-2 at 400 V rated value 55 kW at 40-3 at 1000 V rated value 55 kW at 1000 V rated value 37 kW at AC-3e at 230 V rated value 37 kW at AC-3e at 200 V rated value 37 kW at AC-3e at 200 V rated value 37 kW at AC-3e at 200 V rated value 37 kW at 900 V rated value 37 kW at 900 V rated value 38 kW at 900 V rated value 39 kW at 900 V rated value 30 V rated value 37 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 22 kW at 400 V rated value 22 kW at 690 V rated value 22 kW at 690 V rated value 22 kW at 400 V rated value 37 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 22 kW at 690 V rated value 38 kVA up to 500 V for current peak value n=20 rated value 40 up to 500 V for current peak value n=20 rated value 40 up to 500 V for current peak value n=20 rated value 40 up to 500 V for current peak value n=30 rated value 40 up to 500 V for current peak value n=30 rated value 40 up to 500 V for current peak value n=30 rated value 40 up to 500 V for current peak value n=30 rated value 40 up to 500 V for current peak value n=30 rated value 40 up to 500 V for current peak value n=30 rated value 40 up to 500 V for current peak value n=30 rated value 40 vC ilimited to 1 s switching at zero current maximum 4 limited to 5 s switching at zero current maximum 4 limited to 10 s switching at zero current maximum 4 limited to 10 s switching at zero current maximum 4 limited to 60 s switching at zero current maximum 4 limited to 60 s switching at zero current maximum 4 limited to 60 s switching at zero current maximum 5 limited to 60 s switching at zero current maximum 5 limited to 60 s switching at zero current maximum 6 limited to 60 s switching at zero current maximum 6 limited to 60 s switching at zero current maximum 6 limited to 60 s switching at zero current maximum 7 limited to 60 s switching at zero current maximum 8 limited to 60 s switching at zero current maximum 8 limit | — at 600 V rated value | 0.35 A |
| at AC-3 at 230 V rated value at 400 V rated value 55 kW at 690 V rated value 55 kW at 1000 V rated value 75 kW 37 kW at AC-3e at 230 V rated value 22 kW at AC-3e at 230 V rated value 22 kW at AC-3e at 230 V rated value 22 kW at 690 V rated value 55 kW at 690 V rated value 55 kW at 690 V rated value 75 kW 37 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 22 kW operating apparent power at AC-6a up to 230 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 bup to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 69 kVA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 69 kVA operating apparent power at AC-6a up to 600 V for current peak value n=30 rated value 48 kVA 48 kVA 49 kVA 49 to 400 V for current peak value n=30 rated value 49 to 500 V for current peak value n=30 rated value 49 to 500 V for current peak value n=30 rated value 40 kVA 40 kVA 40 kVA 41 Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value 48 kV Use minimum cross-section acc. to AC-1 rated value | operating power | |
| - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 230 V rated value - at 2500 V rated value - at 2500 V rated value - at 500 V rated value - at 1000 V rated value - at 400 V rated value - at 400 V rated value - 22 kW - at 690 V rated value - 27.4 kW operating apparent power at AC-6a - up to 230 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=30 rated value - up | • at AC-2 at 400 V rated value | 45 kW |
| - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value - at 230 V rated value - at 230 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rated value - at 690 V rated value - 22 kW - at 400 V rated value - 22 kW - at 690 V rated value - 22 kW - at 690 V rated value - 27.4 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value - 27.4 kW operating apparent power at AC-8a • up to 230 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for cu | • at AC-3 | |
| - at 500 V rated value - at 890 V rated value - at 1000 V rated value *at AC-3e - at 230 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rated value - at 690 V rated value - at 1000 V rated value - at 690 V rated value - at 690 V rated value - at 1000 V rated value - at 400 V rated value *at 400 V rated value *at 400 V rated value - at 690 V rated value - up to 230 V for current peak value n=20 rated value - up to 600 V for current peak value n=20 rated value - up to 600 V for current peak value n=20 rated value - up to 600 V for current peak value n=20 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak | — at 230 V rated value | 22 kW |
| - at 690 V rated value - at 1000 V rated value * at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V 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 690 V for current peak value n=30 rated value - up to 690 V for current peak value n= | — at 400 V rated value | 45 kW |
| - at 1000 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 690 V rated value - at 1000 V rated value - at 400 V rated value - at 1000 V rated value - at 1000 V rated value - at 400 V rated value - at 690 V rated value - at 690 V rated value - at 400 V rated value - at 690 V ra | — at 500 V rated value | 55 kW |
| at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 400 V rated value — at 400 V rated value 22 kW • at 400 V rated value • at 690 V rated value • at 400 V rated value 10 peratting apparent power at AC-8a • up to 230 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • ilmited to 1 s switching at zero current maximum • ilmited to 5 s witching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maximum • ilmited to 60 s switching at zero current maxim | — at 690 V rated value | 75 kW |
| - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rated value - at 400 V rated value - at 690 V rated value - 22 kW - at 690 V rated value - 22 kW - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value | — at 1000 V rated value | 37 kW |
| - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value - at 1000 V rated value - at 400 V rated value - at 690 V rated va | • at AC-3e | |
| - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value • at 690 V rated value • up to 230 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 • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 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 • 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 • 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 • timited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum | — at 230 V rated value | |
| | — at 400 V rated value | |
| operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value • at 690 V rated value • at 690 V rocurrent peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 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 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • 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 • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum | | |
| operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value • at 690 V rated value • at 690 V rated value operating apparent power at AC-6a • up to 230 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 • up to 690 V for current peak value n=20 rated value • up to 230 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 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 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 • 17.3 kVA short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum | | |
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| operating apparent power at AC-6a • up to 230 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 • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 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 • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum | | |
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| • 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 • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at z | · | |
| 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 5 hort-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum | | |
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| short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching frequency • at AC 5 000 1/h | | |
| Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum | | |
| limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum mo-load switching frequency at AC 1 297 A; Use minimum cross-section acc. to AC-1 rated value 486 A; Use minimum cross-section acc. to AC-1 rated value 486 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h | | |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum mo-load switching frequency at AC yes minimum cross-section acc. to AC-1 rated value 486 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h | limited to 1 s switching at zero current maximum | 1 725 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC 486 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h | limited to 5 s switching at zero current maximum | 1 297 A; Use minimum cross-section acc. to AC-1 rated value |
| ◆ limited to 60 s switching at zero current maximum 1486 A; Use minimum cross-section acc. to AC-1 rated value 15 000 1/h | limited to 10 s switching at zero current maximum | 946 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency • at AC 5 000 1/h | limited to 30 s switching at zero current maximum | 610 A; Use minimum cross-section acc. to AC-1 rated value |
| • at AC 5 000 1/h | • limited to 60 s switching at zero current maximum | 486 A; Use minimum cross-section acc. to AC-1 rated value |
| | no-load switching frequency | |
| operating frequency | • at AC | 5 000 1/h |
| operating nequency | operating frequency | |
| • at AC-1 maximum 900 1/h | • at AC-1 maximum | 900 1/h |

| at AC-2 maximum | 350 1/h |
|--|--|
| • at AC-3 maximum | 850 1/h |
| at AC-3e maximum | 850 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 | 220 V |
| at 60 Hz rated value | 220 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 | 348 VA |
| ● at 60 Hz | 296 VA |
| inductive power factor with closing power of the coil | |
| ● at 50 Hz | 0.62 |
| ● at 60 Hz | 0.55 |
| apparent holding power of magnet coil at AC | |
| ● at 50 Hz | 25 VA |
| ● at 60 Hz | 18 VA |
| inductive power factor with the holding power of the coil | |
| ● at 50 Hz | 0.35 |
| ● at 60 Hz | 0.41 |
| closing delay | |
| • at AC | 13 50 ms |
| opening delay | |
| • at AC | 10 21 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 | 1 |
| | 1 |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous | |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact | 1 |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum | 1 |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 | 1 10 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value | 1 10 A 6 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value | 1 10 A 6 A 3 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value | 1 10 A 6 A 3 A 2 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value | 1 10 A 6 A 3 A 2 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 | 1 10 A 6 A 3 A 2 A 1 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value | 1 10 A 6 A 3 A 2 A 1 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value | 1 10 A 6 A 3 A 2 A 1 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value • at 410 V rated value • at 410 V rated value • at 410 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 10 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 148 V rated value • at 148 V rated value • at 150 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 29 V rated value • at 20 V rated value • at 20 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 125 V rated value • at 220 V rated value | 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A |

| | 00.4 |
|--|--|
| at 480 V rated value | 96 A |
| • at 600 V rated value | 77 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | 40 h |
| — at 110/120 V rated value | 10 hp |
| — at 230 V rated value | 20 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 30 hp |
| — at 220/230 V rated value | 30 hp |
| — at 460/480 V rated value | 75 hp |
| — at 575/600 V rated value | 75 hp |
| contact rating of auxiliary contacts according to UL | A600 / P600 |
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | gG: 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: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) |
| 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 | 140 mm |
| width | 70 mm |
| depth | 152 mm |
| required spacing | |
| with side-by-side mounting | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — at the side | 10 mm |
| — downwards | 10 mm |
| • for live parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 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 | |
| finely stranded with core end processing | 2x (2.5 35 mm²), 1x (2.5 50 mm²) |
| connectable conductor cross-section for main contacts | |
| • solid | 2.5 16 mm² |
| • stranded | 6 70 mm² |
| finely stranded with core end processing | 2.5 50 mm ² |
| 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 | 5.5 ii. 2.6 iiiii |
| • for auxiliary contacts | |
| - for duxinary contacts | |

| 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | |
|--|--|
| 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | |
| 2x (20 16), 2x (18 14) | |
| | |
| 10 2 | |
| 20 14 | |
| | |
| | |
| Yes | |
| No | |
| Yes | |
| 1 000 000 | |
| | |
| 40 % | |
| 73 % | |
| 100 FIT | |
| 20 a | |
| IP20 | |
| finger-safe, for vertical contact from the front | |
| | |

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



| Functional Safety/Safety of I chinery | a- Declaration of Conformity | Test Certificates |
|---------------------------------------|------------------------------|-------------------|
|---------------------------------------|------------------------------|-------------------|



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping















| other | Railway | Dangerous Good | Environment |
|-------|---------|----------------|-------------|
| | | | |

<u>Confirmation</u> <u>Vibration and Shock</u> <u>Transport Information</u> <u>Environmental Confirmations</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

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

Information on the packaging

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

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2046-1AN20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AN20

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

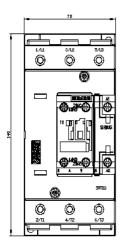
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AN20

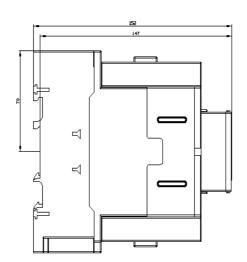
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1AN20&lang=en

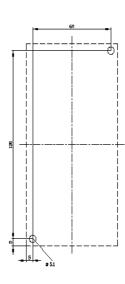
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AN20/char

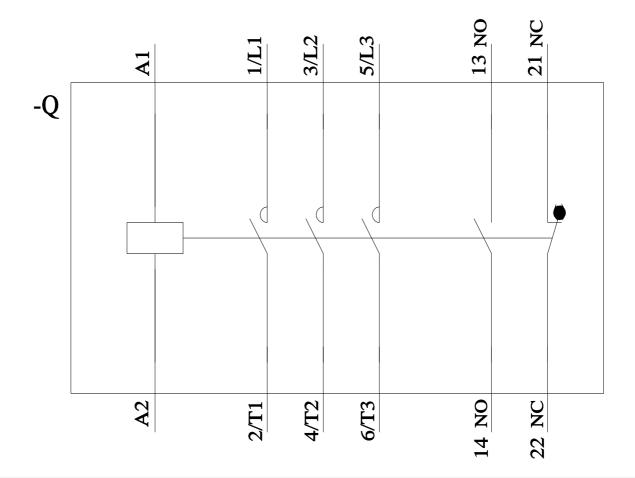
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1AN20&objecttype=14&gridview=view1









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