3RT2027-1AP00-1AA0

Data sheet



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0, upright mounting position

| product brand name product type designation Power contactor product type designation \$3RT2 General technical data size of contactor \$50 product extension • function model for communication • function model for communication • function model for communication • a uxiliary switch Power loss [W] for rated value of the current • at AC in hot operating state er 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 • of calculation of power loss depending on pole 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 • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance at rectangular imputse • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical reference code according to EC 81346-2 Quultification Julia 10000000 reference code according to EC 81346-2 Quultification Ambient conditions Installation allitude at height above sea level maximum ambient temperature • during operation • during operation • during storage relative humidity at 65 °C according to IEC 60068-2-30 maximum relative humidity at 65 °C according to IEC 60068-2-30 maximum relative humidity at 65 °C according to IEC 60068-2-30 maximum | was duct broad name | SIRIUS |
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| product type designation General technical cata size of contactor product extension • function module for communication • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state cat AC in hot operating state per pole • without load current share typical ye of calculation of power loss depending on pole 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 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 cresistance • of main circuit rated value • of auxiliary cresistance at rectangular impulse • alt AC shock resistance at rectangular impulse • alt AC shock resistance with sine pulse • alt AC shock resistance with sine pulse • alt AC mechanical service life (operating cycles) • of contactor 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 EC 81346-2 Substance Prohibitance (Date) Antificit conditions installation altitude at height above sea level maximum admitted the protective search of the Contactor with added auxiliary switch block typical • during operation • during storage relative humidity minimum 10 % relative humidity minimum 10 % relative humidity at 55 °C according to IEC 8068-2-30 maximum | • | |
| Second contactor | · • | |
| size of contactor product extension • function module for communication • function module for communication • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical type of calculation of power loss depending on pole 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 soricuit rated value • at AC shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC solve (resistance with sine pulse • at AC solve (resistance with sine pulse • at AC do (contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block 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 with added electronically optimized auxiliary switch block with added electronically opti | | SKIZ |
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| • function module for communication • auxiliary switch power loss [W] for rated value of the current • 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 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 rated value • at AC shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC shock resistance owner is showners • at AC shock resistance owners • at AC shock resistance with sine pulse • at AC shock resistance • at AC | | 50 |
| auxiliary switch power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole without load current share typical type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of awailiary circuit with degree of pollution 3 rated value of main circuit with degree of pollution 3 rated value of main circuit rated value of main circuit rated value of awailiary switch lother typical at AC shock resistance at rectangular impulse at AC shock resistance with sine pulse at AC shock resistance with sine pulse 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 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 | • | No. |
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| type of calculation of power loss depending on pole 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 maximum permissible voltage for protective separation between coil and main contacts according to EN 80947-1 shock resistance at rectangular impulse of at AC shock resistance with sine pulse 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 ty | | |
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| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC 13,5g / 5 ms, 8,3g / 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 Qu Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • during operation • during storage relative humidity minimum relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum | of main circuit rated value | 6 kV |
| shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC structure 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 | of auxiliary circuit rated value | 6 kV |
| at AC shock resistance with sine pulse at AC at AC 13,5g / 5 ms, 8,3g / 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 of during operation -25 +60 °C of during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum | | 400 V |
| shock resistance with sine pulse • 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 • 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 5 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10 //01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +60 °C -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum | shock resistance at rectangular impulse | |
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| 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 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 -25 +60 °C • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum | 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 | • at AC | 13,5g / 5 ms, 8,3g / 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 reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum 5 000 000 10 000 000 | 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 of during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum 10 000 000 Q 200 0 10/01/2009 -25 +60 °C -25 +60 °C -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 maximum | 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 • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Q 10/01/2009 2 000 m 3 000 m 4 000 °C - 55 +60 °C - 55 +80 °C 7 000 m 9 5 % | | 5 000 000 |
| Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage -25 +60 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum | of the contactor with added auxiliary switch block typical | 10 000 000 |
| Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % | reference code according to IEC 81346-2 | Q |
| installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum | Substance Prohibitance (Date) | 10/01/2009 |
| ambient temperature • during operation • during storage • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % | Ambient conditions | |
| during operation during storage +55 +80 °C relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % | 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 95 % | ambient temperature | |
| relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum | during operation | -25 +60 °C |
| relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum | during storage | -55 +80 °C |
| maximum | relative humidity minimum | 10 % |
| Environmental footprint | | 95 % |
| | Environmental footprint | |

| Environmental Product Declaration(EPD) | Yes |
|--|-----------------|
| Global Warming Potential [CO2 eq] total | 74.2 kg |
| Global Warming Potential [CO2 eq] during manufacturing | 1.9 kg |
| Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation | 72.4 kg |
| Global Warming Potential [CO2 eq] after end of life | -0.117 kg |
| Main circuit | -0.117 kg |
| 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 value | 50 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value | 50 A |
| — up to 690 V at ambient temperature 60 °C rated value | 42 A |
| • at AC-3 | 20.4 |
| — at 400 V rated value | 32 A |
| — at 500 V rated value | 32 A |
| — at 690 V rated value ● at AC-3e | 21 A |
| — at 400 V rated value | 32 A |
| — at 500 V rated value | 32 A |
| — at 690 V rated value | 21 A |
| at AC-4 at 400 V rated value | 22 A |
| at AC-5a up to 690 V rated value | 44 A |
| at AC-5b up to 400 V rated value | 26.5 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 30.8 A |
| — up to 400 V for current peak value n=20 rated value | 30.8 A |
| — up to 500 V for current peak value n=20 rated value | 27 A |
| — up to 690 V for current peak value n=20 rated value | 21 A |
| • at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 20.5 A |
| up to 400 V for current peak value n=30 rated value | 20.5 A |
| up to 500 V for current peak value n=30 rated value | 18 A |
| — up to 690 V for current peak value n=30 rated value | 18 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 10 mm² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 12 A |
| at 690 V rated value | 12 A |
| operational current | |
| • at 1 current path at DC-1 | 05.4 |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 4.5 A |
| — at 220 V rated value | 1 A 0.4 A |
| — at 440 V rated value — at 600 V rated value | 0.4 A 0.25 A |
| with 2 current paths in series at DC-1 | 0.20 A |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| — at 220 V rated value | 5 A |
| — at 440 V rated value | 1A |
| — at 600 V rated value | 0.8 A |
| • with 3 current paths in series at DC-1 | |
| | |

| — at 24 V rated value | 35 A |
|---|---|
| — at 60 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| | |
| — at 220 V rated value | 35 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 | 20 A |
| — at 60 V rated value | 5 A |
| — at 220 V rated value | 1 A |
| — at 440 V rated value | 0.09 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 | 35 A |
| — at 60 V rated value | 35 A |
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 3 A |
| — at 440 V rated value | 0.27 A |
| — at 600 V rated value | 0.16 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 35 A |
| — at 60 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| — at 220 V rated value | 10 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.6 A |
| operating power | |
| at AC-2 at 400 V rated value | 15 kW |
| • at AC-3 | |
| — at 230 V rated value | 7.5 kW |
| — at 400 V rated value | 15 kW |
| — at 500 V rated value | 15 kW |
| — at 690 V rated value | 18.5 kW |
| • at AC-3e | |
| — at 230 V rated value | 7.5 kW |
| — at 400 V rated value | 15 kW |
| — at 500 V rated value | 15 kW |
| — at 690 V rated value | 18.5 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | |
| at 400 V rated value | 6 kW |
| at 690 V rated value | 10.3 kW |
| operating apparent power at AC-6a | 40011/4 |
| • up to 230 V for current peak value n=20 rated value | 12.2 kVA |
| • up to 400 V for current peak value n=20 rated value | 21.3 kVA |
| • up to 500 V for current peak value n=20 rated value | 23.3 kVA |
| • up to 690 V for current peak value n=20 rated value | 25 kVA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 8.1 kVA |
| up to 400 V for current peak value n=30 rated value | 14.2 kVA |
| up to 500 V for current peak value n=30 rated value | 15.5 kVA |
| up to 690 V for current peak value n=30 rated value | 21.5 kVA |
| short-time withstand current in cold operating state up to 40 °C | |
| limited to 1 s switching at zero current maximum | 499 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 341 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 260 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 199 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 162 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| • at AC | 5 000 1/h |
| | |

| operating frequency | |
|--|---|
| • at AC-1 maximum | 1 000 1/h |
| • at AC-2 maximum | 750 1/h |
| • at AC-3 maximum | 750 1/h |
| • at AC-3e maximum | 750 1/h |
| • at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |
| • at 50 Hz rated value | 230 V |
| operating range factor control supply voltage rated value of | 200 0 |
| magnet coil at AC | |
| ● at 50 Hz | 0.8 1.1 |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 77 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.82 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 9.8 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.25 |
| closing delay | 5.25 |
| • at AC | 8 40 ms |
| opening delay | 0 O III 0 |
| • at AC | 4 16 ms |
| | |
| arcing time | 10 10 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 | 1A |
| operational current at DC-12 | |
| • at 24 V rated value | 10 A |
| | 6 A |
| at 48 V rated value at 60 V rated value | |
| at 60 V rated value | 6 A |
| • at 110 V rated value | 3 A |
| at 125 V rated value | 2 A |
| at 220 V rated value | 1 A |
| at 600 V rated value | 0.15 A |
| operational current at DC-13 | |
| at 24 V rated value | 10 A |
| • at 48 V rated value | 2 A |
| at 60 V rated value | 2 A |
| • at 110 V rated value | 1 A |
| • at 125 V rated value | 0.9 A |
| at 220 V rated value | 0.3 A |
| at 600 V rated value | 0.1 A |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 27 A |
| at 600 V rated value | 27 A |
| | |
| yleided mechanical performance indi | |
| yielded mechanical performance [hp] • for single-phase AC motor | |

| 1440/400 // / / / | |
|--|--|
| — at 110/120 V rated value | 2 hp |
| — at 230 V rated value | 5 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 10 hp |
| at 220/230 V rated value | 10 hp |
| — at 460/480 V rated value | 20 hp |
| — at 575/600 V rated value | 25 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: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) |
| — with type of assignment 2 required | gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) |
| • for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | standing, on horizontal mounting surface |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 85 mm |
| width | 45 mm |
| depth | 97 mm |
| required spacing | |
| with side-by-side mounting | |
| — forwards | 10 mm |
| — lolwards — upwards | 10 mm |
| — upwards — downwards | 10 mm |
| | |
| — at the side | 0 mm |
| • for grounded parts | 40 |
| — 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 | 2x (1 2.5 mm²), 2x (2.5 10 mm²) |
| — solid or stranded | 2x (1 2.5 mm²), 2x (2.5 10 mm²) |
| finely stranded with core end processing | 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² |
| • for AWG cables for main contacts | 2x (16 12), 2x (14 8) |
| connectable conductor cross-section for main contacts | |
| • solid | 1 10 mm² |
| • stranded | 1 10 mm² |
| finely stranded with core end processing | 1 10 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 |
| | 0.0 E.0 Hilli |
| type of connectable conductor cross-sections | |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | 2v (0.5 |
| for auxiliary contacts — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| • for auxiliary 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) |

| AWG number as coded connectable conductor cross section | |
|--|--|
| • for main contacts | 16 8 |
| for auxiliary contacts | 20 14 |
| Safety related data | |
| product function | |
| mirror contact according to IEC 60947-4-1 | Yes |
| suitability for use safety-related switching OFF | Yes; applies only to contactor operating mechanism |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 | 73 % |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT |
| IEC 61508 | |
| T1 value | |
| for proof test interval or service life according to IEC 61508 | 20 a |
| Electrical Safety | |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| Approvals Certificates | |

General Product Approval







Confirmation





General Product Approval

EMV

Functional Saftey

Test Certificates

<u>KC</u>





Type Examination Certificate Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













other Environment

<u>Miscellaneous</u> <u>Confirmation</u> <u>Confirmation</u>



Further information

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=3RT2027-1AP00-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AP00-1AA0

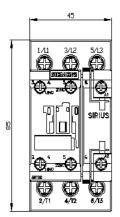
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

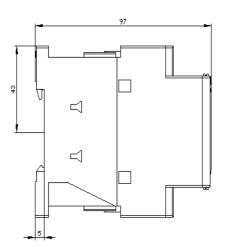
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AP00-1AA0

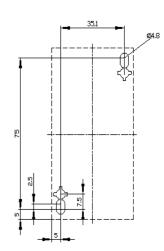
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

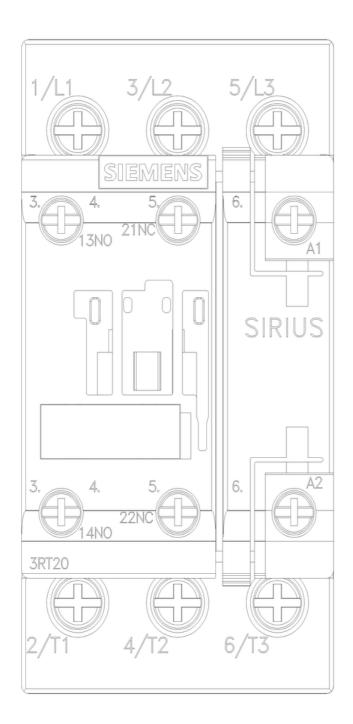
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-1AP00-1AA0\&lang=en}}$

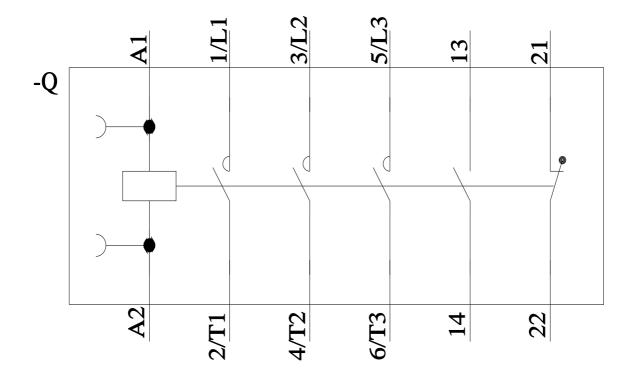
Characteristic: Tripping characteristics, I²t, Let-through current











last modified: 3/15/2024 🖸