SIEMENS

Data sheet

3RT2015-1HB42



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, auxiliary contacts: 1 NC, screw terminal, size: S00, suitable for PLC outputs, not expandable with auxiliary switch

| product brand name | SIRIUS | | | |
|---|----------------------------|--|--|--|
| product designation | Coupling contactor | | | |
| product type designation | 3RT2 | | | |
| General technical data | 0012 | | | |
| size of contactor | S00 | | | |
| product extension | | | | |
| function module for communication | No | | | |
| auxiliary switch | No | | | |
| power loss [W] for rated value of the current | | | | |
| at AC in hot operating state | 0.6 W | | | |
| at AC in hot operating state per pole | 0.2 W | | | |
| without load current share typical | 2.8 W | | | |
| type of calculation of power loss depending on pole | quadratic | | | |
| insulation voltage | 4 | | | |
| of main circuit with degree of pollution 3 rated value | 690 V | | | |
| of auxiliary circuit with degree of pollution 3 rated value | 690 V | | | |
| surge voltage resistance | | | | |
| of main circuit rated value | 6 kV | | | |
| of auxiliary circuit rated value | 6 kV | | | |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V | | | |
| shock resistance at rectangular impulse | | | | |
| • at DC | 6,7g / 5 ms, 4,2g / 10 ms | | | |
| shock resistance with sine pulse | | | | |
| • at DC | 10,5g / 5 ms, 6,6g / 10 ms | | | |
| mechanical service life (operating cycles) | | | | |
| of contactor typical | 30 000 000 | | | |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 | | | |
| reference code according to IEC 81346-2 | Q | | | |
| Substance Prohibitance (Date) | | | | |
| Weight | 0.297 kg | | | |
| Ambient conditions | | | | |
| installation altitude at height above sea level maximum | 2 000 m | | | |
| ambient temperature | | | | |
| during operation | -25 +60 °C | | | |
| during storage | -55 +80 °C | | | |
| relative humidity minimum | 10 % | | | |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % | | | |
| Environmental footprint | | | | |

| Environmental Product Declaration (EDD) | Vac |
|--|---------------------|
| Environmental Product Declaration(EPD) | Yes |
| Global Warming Potential [CO2 eq] total Global Warming Potential [CO2 eq] during manufacturing | 153 kg 1.42 kg |
| Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation | 1.42 kg |
| Global Warming Potential [CO2 eq] after end of life | -0.305 kg |
| Main circuit | -0.000 kg |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage | 5 |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 18 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 18 A |
| — up to 690 V at ambient temperature 60 °C rated value | 16 A |
| • at AC-3 | |
| — at 400 V rated value | 7 A |
| — at 500 V rated value | 6 A |
| — at 690 V rated value | 4.9 A |
| • at AC-3e | |
| — at 400 V rated value | 7 A |
| — at 500 V rated value | 6 A |
| — at 690 V rated value | 4.9 A |
| • at AC-4 at 400 V rated value | 6.5 A |
| at AC-5a up to 690 V rated value | 15.8 A |
| • at AC-5b up to 400 V rated value | 5.8 A |
| • at AC-6a | 4.4 |
| — up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value | 4 A 4 A |
| — up to 500 V for current peak value n=20 rated value | 3.8 A |
| — up to 690 V for current peak value n=20 rated value | 3.6 A |
| • at AC-6a | 0.071 |
| — up to 230 V for current peak value n=30 rated value | 2.7 A |
| — up to 400 V for current peak value n=30 rated value | 2.7 A |
| — up to 500 V for current peak value n=30 rated value | 2.5 A |
| | 2.4 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 2.5 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 2.6 A |
| • at 690 V rated value | 1.8 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 1.5 A |
| — at 220 V rated value | 0.6 A |
| — at 440 V rated value | 0.42 A |
| — at 600 V rated value | 0.42 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 8.4 A |
| — at 220 V rated value | 1.2 A |
| - at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.5 A |
| with 3 current paths in series at DC-1 | |

| — at 24 V rated value | 15 A | | | |
|--|--|--|--|--|
| — at 60 V rated value | 15 A | | | |
| — at 110 V rated value | 15 A | | | |
| — at 220 V rated value | 15 A | | | |
| — at 440 V rated value | 0.9 A | | | |
| — at 600 V rated value | 0.7 A | | | |
| at 1 current path at DC-3 at DC-5 | | | | |
| — at 24 V rated value | 15 A | | | |
| — at 60 V rated value | 0.35 A | | | |
| with 2 current paths in series at DC-3 at DC-5 | | | | |
| — at 24 V rated value | 15 A | | | |
| — at 60 V rated value | 3.5 A | | | |
| — at 110 V rated value | 0.25 A | | | |
| with 3 current paths in series at DC-3 at DC-5 | | | | |
| — at 24 V rated value | 15 A | | | |
| — at 60 V rated value | 15 A | | | |
| — at 110 V rated value | 15 A | | | |
| — at 220 V rated value | 1.2 A | | | |
| — at 440 V rated value | 0.14 A | | | |
| — at 600 V rated value | 0.14 A | | | |
| operating power | | | | |
| • at AC-3 | | | | |
| - at 230 V rated value | 1.5 kW | | | |
| — at 200 V rated value | 3 kW | | | |
| | 3 kW | | | |
| — at 500 V rated value | | | | |
| — at 690 V rated value • at AC-3e | 4 kW | | | |
| | | | | |
| — at 230 V rated value | 1.5 kW | | | |
| — at 400 V rated value | 3 kW | | | |
| — at 500 V rated value | 3 kW | | | |
| — at 690 V rated value | 4 kW | | | |
| operating power for approx. 200000 operating cycles at AC- 4 | | | | |
| at 400 V rated value | 1.15 kW | | | |
| at 690 V rated value | 1.15 kW | | | |
| | | | | |
| | | | | |
| operating apparent power at AC-6a | | | | |
| operating apparent power at AC-6aup to 230 V for current peak value n=20 rated value | 1.5 kVA | | | |
| 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 | 1.5 kVA 2.7 kVA | | | |
| 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 | 1.5 kVA 2.7 kVA 3.3 kVA | | | |
| 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 | 1.5 kVA 2.7 kVA | | | |
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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 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 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 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 short-time withstand current in cold operating state up to 40 °C limited to 1 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 at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum | 1.5 kVA 2.7 kVA 3.3 kVA 4.3 kVA 4.3 kVA 1 kVA 1.8 kVA 2.2 kVA 2.9 kVA 120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h 1000 1/h 750 1/h 750 1/h | | | |

| type of voltage of the control supply voltage | DC | | | |
|---|---|--|--|--|
| control supply voltage at DC rated value | 24 V | | | |
| operating range factor control supply voltage rated value of magnet coil at DC | | | | |
| initial value | 0.7 | | | |
| • full-scale value | 1.25 | | | |
| closing power of magnet coil at DC | 2.8 W | | | |
| holding power of magnet coil at DC | 2.8 W | | | |
| closing delay | | | | |
| • at DC | 25 130 ms | | | |
| opening delay | | | | |
| • at DC | 7 20 ms | | | |
| arcing time | 10 15 ms | | | |
| control version of the switch operating mechanism | Standard A1 - A2 | | | |
| Auxiliary circuit | | | | |
| number of NC contacts for auxiliary contacts instantaneous contact | 1 | | | |
| operational current at AC-12 maximum | 10 A | | | |
| operational current at AC-15 | | | | |
| ● at 230 V rated value | 10 A | | | |
| • at 400 V rated value | 3 A | | | |
| • at 500 V rated value | 2 A | | | |
| • at 690 V rated value | 1A | | | |
| operational current at DC-12 | | | | |
| at 24 V rated value | 10 A | | | |
| at 48 V rated value | 6 A | | | |
| at 60 V rated value | 6 A | | | |
| at 110 V rated value | 3 A | | | |
| at 125 V rated value | 2 A | | | |
| at 220 V rated value | 1A | | | |
| at 600 V rated value | 0.15 A | | | |
| operational current at DC-13 | | | | |
| at 24 V rated value | 10 A | | | |
| at 48 V rated value | 2 A | | | |
| at 60 V rated value | 2 A | | | |
| at 110 V rated value | 1A | | | |
| at 125 V rated value | 0.9 A | | | |
| at 220 V rated value | 0.3 A | | | |
| at 600 V rated value | 0.1 A | | | |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) | | | |
| UL/CSA ratings | | | | |
| | | | | |
| full-load current (FLA) for 3-phase AC motor | 484 | | | |
| at 480 V rated value at 600 V rated value | 4.8 A 6.1 A | | | |
| yielded mechanical performance [hp] | | | | |
| for single-phase AC motor | | | | |
| tor single-phase AC motor at 110/120 V rated value | 0.25 hp | | | |
| — at 110/120 V fated value — at 230 V rated value | | | | |
| | 0.75 hp | | | |
| for 3-phase AC motor at 200/208 V rated value | 1.5 hp | | | |
| - at 200/208 V rated value | 1.5 hp | | | |
| - at 220/230 V rated value | 2 hp | | | |
| - at 460/480 V rated value | 3 hp | | | |
| - at 575/600 V rated value | 5 hp | | | |
| contact rating of auxiliary contacts according to UL | A600 / Q600 | | | |
| Short-circuit protection | | | | |
| design of the fuse link | | | | |
| for short-circuit protection of the main circuit | | | | |
| — with type of coordination 1 required | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) | | | |
| — with type of assignment 2 required | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) | | | |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) | | | |
| Installation/ mounting/ dimensions | | | | |

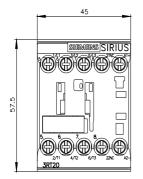
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface | | | |
|--|--|--|--|--|
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 | | | |
| height | 58 mm | | | |
| width | 45 mm | | | |
| depth | 73 mm | | | |
| required spacing | | | | |
| with side-by-side mounting | | | | |
| — forwards | 10 mm | | | |
| — upwards | 10 mm | | | |
| — downwards | 10 mm | | | |
| — at the side | 0 mm | | | |
| for grounded parts | | | | |
| — forwards | 10 mm | | | |
| — 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 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² | | | |
| — solid or stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² | | | |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | | | |
| for AWG cables for main contacts | 2x (20 16), 2x (18 14), 2x 12 | | | |
| connectable conductor cross-section for main contacts | | | | |
| • solid | 0.5 4 mm² | | | |
| • stranded | 0.5 4 mm² | | | |
| finely stranded with core end processing | 0.5 2.5 mm² | | | |
| connectable conductor cross-section for auxiliary contacts | | | | |
| solid or stranded | 0.5 4 mm ² | | | |
| finely stranded with core end processing | 0.5 2.5 mm² | | | |
| type of connectable conductor cross-sections | | | | |
| for auxiliary contacts | | | | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² | | | |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | | | |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 2x 12 | | | |
| AWG number as coded connectable conductor cross section | | | | |
| for main contacts | 20 12 | | | |
| for main contacts for auxiliary contacts | 20 12 20 12 | | | |
| Safety related data | LV 12 | | | |
| product function | | | | |
| mirror contact according to IEC 60947-4-1 | Yes | | | |
| minor contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 | No | | | |
| suitable for safety function | Yes | | | |
| suitability for use safety-related switching OFF | Yes | | | |
| suitability for use safety-related switching OFF service life maximum | 20 a | | | |
| test wear-related service life necessary | Yes | | | |
| proportion of dangerous failures | | | | |
| with low demand rate according to SN 31920 | 40 % | | | |
| with high demand rate according to SN 31920 | 73 % | | | |
| - with high demand rate according to SN 31920 | 10.70 | | | |

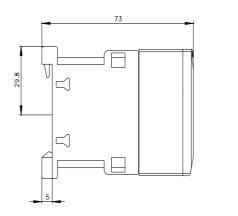
| B10 value with high demand rate according to SN 31920 1 000 000 failure rate [FIT] with low demand rate according to SN 31920 100 FIT ISO 13849 3 device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 safety device type according to IEC 61508-2 Type A Electrical Safety protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 touch approvals Certificates General Product Approval Confirmation General Product Approval EMV Functional Safety Marine / Shippin Figure EC Special Test Certificates Marine / Shippin Marine / Shippin Ifficate Special Test Certificates Type Iest Certificates Marine / Shippin Ifficate Special Test Certificates Type Iest Certificates Special Test Certificates Ifficate Report Miscelianeous Marine / Shippin Ifficate Ifficate Special Test Certificates Ifficate Report Ifficate Ifficate Ifficate Ifficate Ifficate Ifficate Ifficate Ifficate Iffi | | | | | | | |
|--|---|--|-----------------------|-----------------|-----------------------------|----------------|----------------------|
| 31920 IV | B10 value with high d | emand rate according to | SN 31920 | 1 000 | 000 | | |
| device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 Yes satety device type according to IEC 61508-2 Type A Electrical Safety IP20 protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 General Product Approval General Product Approval Efficience Functional Safety Ifficiate Ifficiate Ifficiate | failure rate [FIT] with low demand rate according to SN | | 100 F | ΊΤ | | | |
| overdimensioning according to IBO 13849-2 necessary Yes IEC 61508 safety device type according to IEC 61508-2 Type A Electrical Safety protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 ceneral Product Approval Confirmation General Product Approval EMV Functional Safety Efficience Functional Safety proval EMV Functional Safety Marine / Shipping EMV Functional Safey Marine / Shipping EMI Special Test Certificates Marine / Shipping Other Image: Safe / Shipping Image: Special Test Certificates Marine / Shipping Image: Special Test Certificates | ISO 13849 | | | | | | |
| IEC 61508 safety device type according to IEC 61508-2 Electrical Safety protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 General Product Approval Effective Effective General Product Approval Effective Effective IFF Effective | device type according | g to ISO 13849-1 | | 3 | | | |
| safety device type according to IEC 61508-2 Type A Electrical Safety protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 fouch protection on the front according to IEC 60529 IP20 fouch protection on the front according to IEC 60529 General Product Approval General Product Ap- proval EMV Functional Safety Type Examination Cer- tificate Type Test Certific- ate Type T | overdimensioning acc | cording to ISO 13849-2 n | ecessary | Yes | | | |
| Electrical Safety protection class IP on the front according to IEC 60529 IP20 finger-safe, for vertical contact from the front Approvals Certificates General Product Approval Confirmation KC General Product Ap- proval EMV Functional Safety Test Certificates Marine / Shippin Image: Subscription of the front according to IEC 60529 Type Examination Cer- tificate Special Test Certific- ate Type Test Certific- ates/Test Report Marine / Shippin Image: Subscription of the front score of the formation of the format | IEC 61508 | | | | | | |
| protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Inger-safe, for vertical contact from the front Approvals Certificates General Product Approval Confirmation General Product Approval EMV Functional Saftey Test Certificates Marine / Shipping Image: Safe for vertical contact from the front according to IEC 60529 Marine / Shipping Marine / Shipping EMV Functional Saftey Test Certificates Type Test Certificates Marine / Shipping Image: Safe for vertical contact from the front according to IEC 60529 Image: Safe for vertical contact from the front Marine / Shipping Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact from the front Image: Safe for vertical contact | safety device type acc | cording to IEC 61508-2 | | Туре | A | | |
| touch protection on the front according to IEC 60529 Inger-safe, for vertical contact from the front Approvals Certificates General Product Approval Image - safe, for vertical contact from the front General Product Approval Image - safe, for vertical contact from the front KC General Product Approval Image - safe, for vertical contact from the front KC General Product Approval Image - safe, for vertical contact from the front KC General Product Approval EMV Functional Saftey Test Certificates Marine / Shipping Image - safe, for vertical contact from the front Image - safe, for vertical contact from the front Image - safe, for vertical contact from the front General Product Approval EMV Functional Saftey Test Certificates Marine / Shipping Image - Second - | Electrical Safety | | | | | | |
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| General Product Approval Confirmation KC General Product Appoon EMV Functional Saffey Test Certificates Marine / Shipping General Product Apport EMV Functional Saffey Test Certificates Marine / Shipping Image: Figure Shipping Image: Figure Shipping Image: Figure Shipping Image: Figure Shipping Other Image: Figure Shipping | touch protection on th | he front according to IEC | C 60529 | finger | -safe, for vertical contact | from the front | |
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| BUREAU VERITAS | Marine / Shipping | | | | | | other |
| other Railway Dangerous goods Environment | BUREAU VERITAS | | PRS | | RINA | RMRS | <u>Miscellaneous</u> |
| | other | Railway | Dangerous goods | | Environment | | |
| Confirmation Special Test Certific- ate | <u>Confirmation</u> | | Transport Information | | EPD | | |
| Further information Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) | Information on the pa https://support.industry Information- and Dow | .siemens.com/cs/ww/en/vi nloadcenter (Catalogs, E | | | | | |
| https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-1HB42 | Industry Mall (Online | ordering system) | alog/product?mlfb= | = <u>3R</u> T20 | 15-1HB42 | | |
| Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1HB42 | Cax online generator http://support.automatic | on.siemens.com/WW/CAX | Corder/default.aspx | <u>(?lang=e</u> | | 2 | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1HB42</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) | | | | | | | |

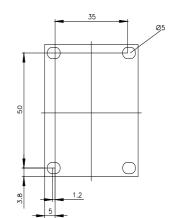
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1HB42&lang=en

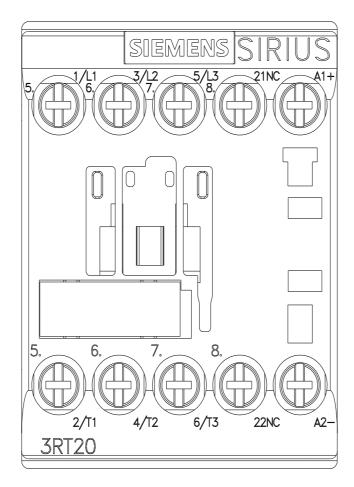
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1HB42/char

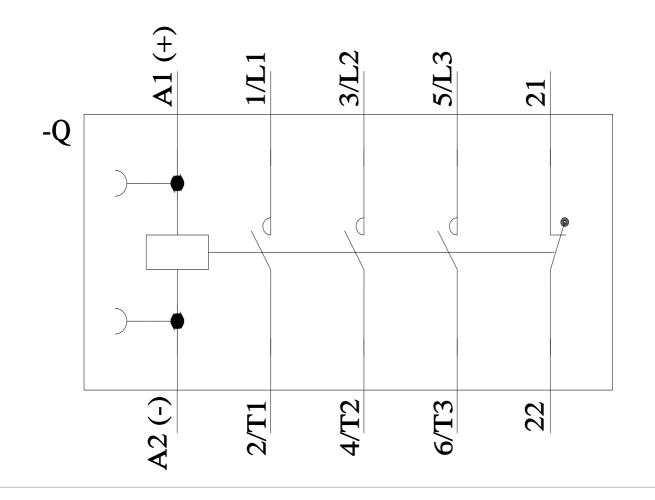
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1HB42&objecttype=14&gridview=view1











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