## **SIEMENS**

Data sheet 3RT2017-2FB42



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, with integrated diode, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00  $\,$ 

| product brand name   | SIRIUS                     |
|--|----------------------------|
| product designation  | Power contactor            |
| product type designation   | 3RT2                       |
| General technical data   |                            |
| size of contactor  | S00                        |
| product extension  |                            |
| <ul> <li>function module for communication</li> </ul>  | No                         |
| auxiliary switch   | Yes                        |
| power loss [W] for rated value of the current  |                            |
| <ul> <li>at AC in hot operating state</li> </ul>   | 1.5 W                      |
| <ul> <li>at AC in hot operating state per pole</li> </ul>  | 0.5 W                      |
| <ul> <li>without load current share typical</li> </ul>   | 4 W                        |
| type of calculation of power loss depending on pole  | quadratic                  |
| insulation voltage   |                            |
| <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>                                   | 690 V                      |
| <ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>                              | 690 V                      |
| surge voltage resistance   |                            |
| <ul> <li>of main circuit rated value</li> </ul>  | 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  | 7.3g / 5 ms, 4.7g / 10 ms  |
| shock resistance with sine pulse   |                            |
| • at DC  | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating cycles)   |                            |
| of contactor typical   | 30 000 000                 |
| <ul> <li>of the contactor with added electronically optimized<br/>auxiliary switch block typical</li> </ul>  | 5 000 000                  |
| <ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>                               | 10 000 000                 |
| reference code according to IEC 81346-2  | Q                          |
| Substance Prohibitance (Date)  | 10/01/2009                 |
| SVHC substance name  | Lead - 7439-92-1           |
| Weight   | 0.316 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   | 95 %                       |

| maximum  |                |
|--|----------------|
| Environmental footprint  |                |
| Environmental Product Declaration(EPD)   | Yes            |
| global warming potential [CO2 eq] total  | 153 kg         |
| global warming potential [CO2 eq] during manufacturing   | 1.42 kg        |
| global warming potential [CO2 eq] during operation   | 152 kg         |
| global warming potential [CO2 eq] after end of life  | -0.305 kg      |
| Main circuit   |                |
| number of poles for main current circuit   | 3              |
| number of NO contacts for main contacts  | 3              |
| operating voltage  |                |
| • at AC-3 rated value maximum  | 690 V          |
| at AC-3e rated value maximum   | 690 V          |
| operational current  |                |
| <ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul> | 22 A           |
| — up to 690 V at ambient temperature 40 °C rated   | 22 A           |
| value — up to 690 V at ambient temperature 60 °C rated value                                   | 20 A           |
| • at AC-3  |                |
| — at 400 V rated value   | 12 A           |
| — at 500 V rated value   | 9.2 A          |
| — at 690 V rated value   | 6.7 A          |
| • at AC-3e   |                |
| — at 400 V rated value   | 12 A           |
| — at 500 V rated value   | 9.2 A          |
| — at 690 V rated value   | 6.7 A          |
| • at AC-4 at 400 V rated value   | 8.5 A          |
| • at AC-5a up to 690 V rated value   | 19.4 A         |
| • at AC-5b up to 400 V rated value   | 9.9 A          |
| • at AC-6a   |                |
| <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>                        | 7.2 A          |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>                        | 7.2 A          |
| <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>                        | 7.2 A          |
| — up to 690 V for current peak value n=20 rated value  | 6.7 A          |
| • at AC-6a   |                |
| — up to 230 V for current peak value n=30 rated value  | 4.8 A          |
| — up to 400 V for current peak value n=30 rated value  | 4.8 A          |
| — up to 500 V for current peak value n=30 rated value  | 4.8 A          |
| — up to 690 V for current peak value n=30 rated value  | 4.8 A          |
| minimum cross-section in main circuit at maximum AC-1 rated value                              | 4 mm²          |
| operational current for approx. 200000 operating cycles at AC-4                                | 44.4           |
| at 400 V rated value  at 600 V rated value   | 4.1 A<br>3.3 A |
| at 690 V rated value     operational current   | 0.0 A          |
| at 1 current path at DC-1  |                |
| — at 24 V rated value  | 20 A           |
| — at 60 V rated value  | 20 A           |
| — at 110 V rated value   | 2.1 A          |
| — at 220 V rated value   | 0.8 A          |
| — at 440 V rated value   | 0.6 A          |
| — at 600 V rated value   | 0.6 A          |
| • with 2 current paths in series at DC-1   |                |
| — at 24 V rated value  | 20 A           |
| — at 60 V rated value  | 20 A           |
| — at 110 V rated value   | 12 A           |
| — at 220 V rated value   | 1.6 A          |
| — at 440 V rated value   | 0.8 A          |

| — at 600 V rated value  | 0.7 A   |
|---|---|
| <ul> <li>with 3 current paths in series at DC-1</li> </ul>              |   |
| — at 24 V rated value   | 20 A  |
| — at 60 V rated value   | 20 A  |
| — at 110 V rated value  | 20 A  |
| — at 220 V rated value  | 20 A  |
| — at 440 V rated value  | 1.3 A   |
| — at 600 V rated value  | 1 A   |
| <ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>                   |   |
| — at 24 V rated value   | 20 A  |
| — at 60 V rated value   | 0.5 A   |
| — at 110 V rated value  | 0.15 A  |
| <ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>      |   |
| — at 24 V rated value   | 20 A  |
| — at 60 V rated value   | 5 A   |
| — at 110 V rated value  | 0.35 A  |
| <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>      |   |
| — at 24 V rated value   | 20 A  |
| — at 60 V rated value   | 20 A  |
| — at 110 V rated value  | 20 A  |
| — at 220 V rated value  | 1.5 A   |
| — at 440 V rated value  | 0.2 A   |
| — at 600 V rated value  | 0.2 A   |
| operating power   |   |
| at AC-2 at 400 V rated value  | 5.5 kW  |
| • at AC-3   |   |
| — at 230 V rated value  | 3 kW  |
| — at 400 V rated value  | 5.5 kW  |
| — at 500 V rated value  | 5.5 kW  |
| — at 690 V rated value  | 5.5 kW  |
| • at AC-3e  | O.O KVV   |
| — at 230 V rated value  | 3 kW  |
| — at 400 V rated value  | 5.5 kW  |
| — at 500 V rated value  | 5.5 kW  |
| — at 690 V rated value  | 5.5 kW  |
| operating power for approx. 200000 operating cycles at AC-              | 0.0 KVV   |
| 4   |   |
| • at 400 V rated value  | 2 kW  |
| <ul> <li>at 690 V rated value</li> </ul>                                | 2.5 kW  |
| operating apparent power at AC-6a                                       |   |
| <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul> | 2.8 kVA   |
| • up to 400 V for current peak value n=20 rated value                   | 4.9 VA  |
| • up to 500 V for current peak value n=20 rated value                   | 6.2 VA  |
| • up to 690 V for current peak value n=20 rated value                   | 8 VA  |
| operating apparent power at AC-6a                                       |   |
| • up to 230 V for current peak value n=30 rated value                   | 1.9 VA  |
| • up to 400 V for current peak value n=30 rated value                   | 3.3 VA  |
| • up to 500 V for current peak value n=30 rated value                   | 4.1 VA  |
| • up to 690 V for current peak value n=30 rated value                   | 5.7 VA  |
| short-time withstand current in cold operating state up to              |   |
| 40 °C   |   |
| <ul> <li>limited to 1 s switching at zero current maximum</li> </ul>    | 200 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 5 s switching at zero current maximum</li> </ul>    | 123 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 10 s switching at zero current maximum</li> </ul>   | 96 A; Use minimum cross-section acc. to AC-1 rated value  |
| <ul> <li>limited to 30 s switching at zero current maximum</li> </ul>   | 74 A; Use minimum cross-section acc. to AC-1 rated value  |
| Iimited to 60 s switching at zero current maximum                       | 61 A; Use minimum cross-section acc. to AC-1 rated value  |
| no-load switching frequency   |   |
| • at DC   | 10 000 1/h  |
| operating frequency   |   |
| • at AC-1 maximum   | 1 000 1/h   |
| • at AC-2 maximum   | 750 1/h   |
|   |   |

| -4.40.0  | 750 4/1   |
|--|---|
| • at AC-3 maximum  | 750 1/h   |
| at AC-3e maximum     at AC-4 maximum   | 750 1/h   |
| at AC-4 maximum  Control circuit/ Control  | 250 1/h   |
| Control circuit/ Control   | DC  |
| type of voltage of the control supply voltage  | DC<br>24 V                                      |
| control supply voltage at DC rated value   | 24 V  |
| operating range factor control supply voltage rated value of<br>magnet coil at DC          |   |
| • initial value  | 0.8   |
| • full-scale value   | 1.1   |
| design of the surge suppressor   | diode   |
| closing power of magnet coil at DC   | 4 W   |
| holding power of magnet coil at DC   | 4 W   |
| closing delay  |   |
| • at DC  | 30 100 ms                                       |
| opening delay  |   |
| • at DC  | 38 65 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   | 1 A   |
| operational current at DC-12   |   |
| • at 24 V rated value  | 10 A  |
| • at 48 V rated value  | 6 A   |
| • at 60 V rated value  | 6 A   |
| • at 110 V rated value   | 3 A   |
| • at 125 V rated value   | 2 A   |
| • at 220 V rated value   | 1.4   |
| at 600 V rated value   | 0.15 A  |
| operational current at DC-13   | 40.4  |
| at 24 V rated value  | 10 A  |
| • at 48 V rated value  | 2 A   |
| at 440 V rated value   | 2 A   |
| at 110 V rated value     at 125 V rated value  | 1A  |
| at 125 V rated value     at 220 V rated value  | 0.9 A   |
| at 220 V rated value     at 600 V rated value  | 0.3 A<br>0.1 A                                  |
| at 600 V rated value  design of the miniature circuit breaker for short-circuit protection | C characteristic: 10 A; 0.4 kA                  |
| of the auxiliary circuit up to 230 V  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   | 11 A  |
| • at 600 V rated value   | 11 A  |
| yielded mechanical performance [hp]  |   |
| for single-phase AC motor  |   |
| — at 110/120 V rated value   | 0.5 hp  |
| — at 230 V rated value   | 2 hp  |
| • for 3-phase AC motor   |   |
| — at 200/208 V rated value   | 3 hp  |
| — at 220/230 V rated value   | 3 hp  |
| — at 460/480 V rated value   | 8 hp  |
| — at 575/600 V rated value   | 10 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: 50A (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 side-by-side mounting   | Yes  |
| fastening method   | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715   |
| height   | 70 mm  |
| width  | 45 mm  |
| depth  | 73 mm  |
| required spacing   |  |
| <ul><li>with side-by-side mounting</li></ul>   |  |
| — forwards   | 10 mm  |
| — upwards  | 10 mm  |
| — downwards  | 10 mm  |
| — at the side  | 0 mm   |
| <ul> <li>for grounded parts</li> </ul>   |  |
| — 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   | spring-loaded terminals  |
| <ul> <li>for auxiliary and control circuit</li> </ul>  | spring-loaded terminals  |
| <ul> <li>at contactor for auxiliary contacts</li> </ul>  | Spring-type terminals  |
| of magnet coil   | Spring-type terminals  |
| type of connectable conductor cross-sections   |  |
| • for main contacts  |  |
| — solid  | 2x (0.5 4 mm²)   |
| — solid or stranded  | 2x (0,5 4 mm²)   |
| <ul> <li>finely stranded with core end processing</li> </ul>   | 2x (0.5 2.5 mm²)   |
| <ul> <li>finely stranded without core end processing</li> </ul>  | 2x (0.5 2.5 mm²)   |
| for AWG cables for main contacts   |  |
| connectable conductor cross-section for main contacts  | 2x (20 12)   |
|  | 2x (20 12)   |
| • solid  | 2x (20 12) 0.5 4 mm <sup>2</sup>   |
| <ul><li>solid</li><li>stranded</li></ul>   |  |
|  | 0.5 4 mm²  |
| • stranded   | 0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup>   |
| <ul><li>stranded</li><li>finely stranded with core end processing</li></ul>  | 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>  |
| <ul><li>stranded</li><li>finely stranded with core end processing</li><li>finely stranded without core end processing</li></ul>  | 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>  |
| stranded     finely stranded with core end processing     finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts   | 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>  |
| stranded     finely stranded with core end processing     finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts     solid or stranded   | 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>  |
| stranded     finely stranded with core end processing     finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts     solid or stranded     finely stranded with core end processing  | 0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup>   |
| stranded     finely stranded with core end processing     finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts     solid or stranded     finely stranded with core end processing     finely stranded without core end processing  | 0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup>   |
| stranded     finely stranded with core end processing     finely stranded without core end processing  connectable conductor cross-section for auxiliary contacts     solid or stranded     finely stranded with core end processing     finely stranded without core end processing  type of connectable conductor cross-sections   | 0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup>   |
| stranded     finely stranded with core end processing     finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts     solid or stranded     finely stranded with core end processing     finely stranded without core end processing     type of connectable conductor cross-sections     for auxiliary contacts  | 0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup>   |
| stranded     finely stranded with core end processing     finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts     solid or stranded     finely stranded with core end processing     finely stranded without core end processing     type of connectable conductor cross-sections     for auxiliary contacts     solid or stranded  | 0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>2x (0,5 4 mm <sup>2</sup> )   |
| stranded     finely stranded with core end processing     finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts     solid or stranded     finely stranded with core end processing     finely stranded without core end processing  type of connectable conductor cross-sections     for auxiliary contacts     — solid or stranded     — finely stranded with core end processing  | 0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>2x (0,5 4 mm <sup>2</sup> )<br>2x (0,5 4 mm <sup>2</sup> )                                  |
| stranded     finely stranded with core end processing     finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts     solid or stranded     finely stranded with core end processing     finely stranded without core end processing     type of connectable conductor cross-sections     for auxiliary contacts     — solid or stranded     — finely stranded with core end processing     — finely stranded without core end processing     — finely stranded without core end processing     of AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross | 0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>2x (0,5 4 mm <sup>2</sup> )<br>2x (0,5 4 mm <sup>2</sup> )<br>2x (0.5 2.5 mm <sup>2</sup> ) |
| stranded     finely stranded with core end processing     finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts         solid or stranded         finely stranded with core end processing         finely stranded without core end processing         type of connectable conductor cross-sections             for auxiliary contacts  | 0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>2x (0,5 4 mm <sup>2</sup> )<br>2x (0,5 4 mm <sup>2</sup> )<br>2x (0.5 2.5 mm <sup>2</sup> ) |

| • for auxiliary contacts   | 20 12  |
|--|--|
| Safety related data  |  |
| product function   |  |
| <ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>              | Yes  |
| <ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul> | No   |
| suitable for safety function   | Yes  |
| suitability for use safety-related switching OFF                           | Yes  |
| service life maximum   | 20 a   |
| test wear-related service life necessary                                   | Yes  |
| proportion of dangerous failures   |  |
| <ul> <li>with low demand rate according to SN 31920</li> </ul>             | 40 %   |
| <ul> <li>with high demand rate according to SN 31920</li> </ul>            | 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  |
| ISO 13849  |  |
| 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 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



<u>KC</u>

General Product Approval

EMV

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping





RS.







**Miscellaneous** 

other

other Railway Dangerous goods

Environment

Confirmation

Special Test Certificate

Transport Information



Environmental Confirmations

## 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=3RT2017-2FB42

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2FB42

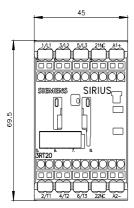
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

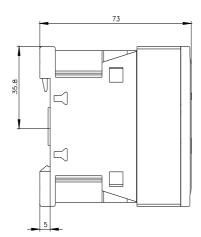
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2FB42

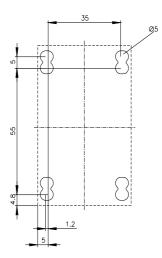
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-2FB42&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-2FB42&lang=en</a>

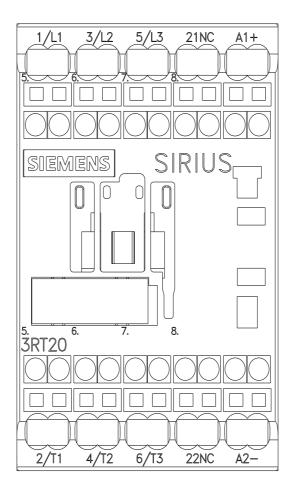
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2FB42/char

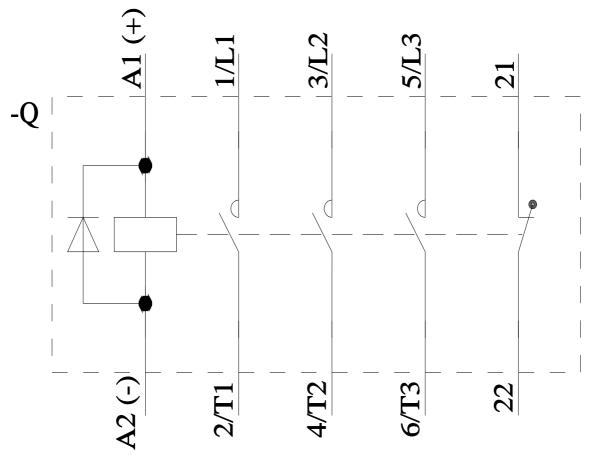
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2FB42&objecttype=14&gridview=view1











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