## **SIEMENS**

Data sheet 3RT2017-2BB41



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, 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                      |
| without load current share typical   | 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)   |                            |
| <ul> <li>of contactor typical</li> </ul>   | 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                 |
| Ambient conditions   |                            |
| installation altitude at height above sea level maximum  | 2 000 m                    |
| ambient temperature  |                            |
| <ul> <li>during operation</li> </ul>   | -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(EPD)  | Yes                   |
|---|-----------------------|
| Global Warming Potential [CO2 eq] total   | 153 kg                |
| Global Warming Potential [CO2 eq] total  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<br/>value</li> </ul>               | 22 A                  |
| • at AC-1   |                       |
| — up to 690 V at ambient temperature 40 °C rated value  | 22 A                  |
| — 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  |                       |
| — up to 230 V for current peak value n=20 rated value   | 7.2 A                 |
| — up to 400 V for current peak value n=20 rated value   | 7.2 A                 |
| — up to 500 V for current peak value n=20 rated value   | 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                                 |                       |
| at 400 V rated value  | 4.1 A                 |
| at 690 V rated value  | 3.3 A                 |
| operational current   |                       |
| at 1 current path at DC-1  at 24 V rated value  | 20 A                  |
| — at 24 V rated value<br>— at 60 V rated value  | 20 A<br>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   |                       |
| — at 60 V rated value   | 20 A                  |
| — at 110 V rated value  | 20 A<br>20 A          |
| — at 110 v fated value  |                       |
| — at 220 V rated value  | 20 A                  |
|   | 20 A<br>12 A          |
| — at 220 V rated value  | 20 A<br>12 A<br>1.6 A |

| 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 at 600 V rated value 1 A at 1 current path at DC-3 at DC-5 at 24 V rated value 20 A at 60 V rated value 30.5 A at 110 V rated value 30.15 A at 60 V rated value 30.15 A at 60 V rated value 30.35 A at 60 V rated value 30.35 A at 24 V rated value 30.35 A at 110 V rated value 30.35 A at 24 V rated value 30.35 A at 25 V rated value 30.35 A at 25 V rated value 30.35 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  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 5.5 A - at 110 V rated value 0.15 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 5 A - at 10 V rated value 5.5 A - at 110 V rated value 5.5 A - at 110 V rated value 20 A - at 60 V rated value 5.5 A - at 24 V rated value 20 A - at 60 V rated value 20 A - at 110 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  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 0.5 A - at 110 V rated value 0.15 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 5 A - at 110 V rated value 0.35 A  • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 20 A  |                         |
| - at 440 V rated value 1.3 A - at 600 V rated value 1 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 0.15 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 5 A - at 110 V rated value 5 A - at 110 V rated value 20 A  • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A  • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 20 A - at 60 V rated value 20 A - at 110 V rated value 20 A   |                         |
| — at 600 V rated value  ■ at 1 current path at DC-3 at DC-5  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  ■ with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value  ■ with 3 current paths in series at DC-3 at DC-5  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 20 A  — at 110 V rated value  — at 20 A   |                         |
| <ul> <li>at 1 current path at DC-3 at DC-5         — at 24 V rated value</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  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 5 A - at 110 V rated value 0.35 A  • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 20 A - at 60 V rated value 20 A - at 110 V rated value 20 A   |                         |
| - at 60 V rated value 0.5 A - at 110 V rated value 0.15 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 5. A - at 110 V rated value 0.35 A  • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 60 V rated value 20 A - at 110 V rated value 20 A  |                         |
| <ul> <li>at 110 V rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> </ul>   |                         |
| <ul> <li>with 2 current paths in series at DC-3 at DC-5         <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul> </li> <li>with 3 current paths in series at DC-3 at DC-5         <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul> </li> <li>at 110 V rated value</li> <li>A</li> <li>B</li> <li>A</li> <li>B</li> <li>A</li> <li>B</li> <li>A</li> <li>B</li> <li>A</li> <li>B</li> <li>B</li></ul> |                         |
| <ul> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>• with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 110 V rated value</li> <li>— at 20 A</li> </ul>  |                         |
| <ul> <li>— at 60 V rated value 5 A</li> <li>— at 110 V rated value 0.35 A</li> <li>● with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value 20 A</li> <li>— at 60 V rated value 20 A</li> <li>— at 110 V rated value 20 A</li> </ul>  |                         |
| <ul> <li>at 110 V rated value</li> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>20 A</li> <li>20 A</li> <li>20 A</li> </ul>   |                         |
| <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>20 A</li> <li>— 20 A</li> </ul>   |                         |
| <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>20 A</li> <li>20 A</li> </ul>   |                         |
| <ul><li>— at 60 V rated value</li><li>— at 110 V rated value</li><li>20 A</li><li>20 A</li></ul>   |                         |
| — 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-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   |                         |
| — at 230 V rated value 3 kW  |                         |
| — at 400 V rated value 5.5 kW  |                         |
| — at 500 V rated value 5.5 kW  |                         |
| — at 500 V rated value 5.5 kW  |                         |
| operating power for approx. 200000 operating cycles at AC-   |                         |
| 4  |                         |
| at 400 V rated value     2 kW  |                         |
| • at 690 V rated value 2.5 kW  |                         |
| operating apparent power at AC-6a  |                         |
| • up to 230 V for current peak value n=20 rated value  2.8 kVA   |                         |
| • up to 400 V for current peak value n=20 rated value 4.9 kVA  |                         |
| • up to 500 V for current peak value n=20 rated value 6.2 kVA  |                         |
| • up to 690 V for current peak value n=20 rated value 8 kVA  |                         |
| operating apparent power at AC-6a  |                         |
| • up to 230 V for current peak value n=30 rated value  1.9 kVA   |                         |
| • up to 400 V for current peak value n=30 rated value  3.3 kVA   |                         |
| • up to 500 V for current peak value n=30 rated value  4.1 kVA   |                         |
| • up to 690 V for current peak value n=30 rated value 5.7 kVA  |                         |
| short-time withstand current in cold operating state up to 40 °C   |                         |
| <ul> <li>limited to 1 s switching at zero current maximum</li> <li>200 A; Use minimum cross-section a</li> </ul>   | acc to AC-1 rated value |
|  |                         |
| • limited to 5 s switching at zero current maximum  123 A; Use minimum cross-section at limited to 10 s switching at zero current maximum  96 A: Use minimum cross-section at  |                         |
| • limited to 10 s switching at zero current maximum  96 A; Use minimum cross-section ac  |                         |
| Ilmited to 30 s switching at zero current maximum     74 A; Use minimum cross-section ac     Ilmited to 60 s switching at zero current maximum     61 A: Use minimum cross-section ac  |                         |
| • limited to 60 s switching at zero current maximum  61 A; Use minimum cross-section ac  | Co. 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  |                         |
| • 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                                  | 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  | 0.8   |
| full-scale value   | 1.1   |
| 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  | 7 13 ms   |
| arcing time  | 10 15 ms  |
| control version of the switch operating mechanism                              | Standard A1 - A2  |
| Auxiliary circuit  |   |
| number of NO contacts for auxiliary contacts instantaneous contact             | 1   |
| operational current at AC-12 maximum   | 10 A  |
| operational current at AC-15   |   |
| • at 230 V rated value   | 10 A  |
| at 400 V rated value   | 3 A   |
| • at 500 V rated value   | 2 A   |
| at 690 V rated value   | 1 A   |
| operational current at DC-12   |   |
| at 24 V rated value  | 10 A  |
| at 48 V rated value  | 6 A   |
| • at 60 V rated value  | 6 A   |
| • at 110 V rated value   | 3 A   |
| at 125 V rated value   | 2 A   |
| at 220 V rated value   | 1 A   |
| at 600 V rated value   | 0.15 A  |
| operational current at DC-13   |   |
| at 24 V rated value  | 10 A  |
| at 48 V rated value  | 2 A   |
| at 60 V rated value  | 2 A   |
| at 110 V rated value   | 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   | 11 A  |
| at 600 V rated value   | 11 A  |
| yielded mechanical performance [hp]  |   |
| <ul> <li>for single-phase AC motor</li> </ul>                                  |   |
| — 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   | 7.5 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) |
| 1770 S. doorginnont 2 roquirod   | 3 · · (000 - ) · (000 - ) · (000 - ) · (000 - ) · (000 - )          |

| nstallation/ mounting/ dimensions  |   |
|--|---|
| mounting position  | +/-180° rotation possible on vertical mounting surface; can be tilted forward and |
| mounting position  | 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   | 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  |
| for grounded parts   |   |
| — forwards   | 10 mm   |
| — upwards  | 10 mm   |
| — at the side  | 6 mm  |
| — downwards  | 10 mm   |
| • for live parts   | 10 mm   |
| — forwards   | 10 mm   |
| — upwards<br>— downwards   | 10 mm<br>10 mm  |
| — at the side  | 6 mm  |
| connections/ Terminals   |   |
| type of electrical connection  |   |
| • for main current circuit   | spring-loaded terminals   |
| for auxiliary and control circuit  | spring-loaded terminals   |
| at contactor for auxiliary contacts  | Spring-tope 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)  |
| — finely stranded with core end processing                                 | 2x (0.5 2.5 mm²)  |
| — finely stranded without core end processing                              | 2x (0.5 2.5 mm²)  |
| for AWG cables for main contacts   | 2x (20 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   |
| <ul> <li>finely stranded without core end processing</li> </ul>            | 0.5 2.5 mm²   |
| connectable conductor cross-section for auxiliary contacts                 |   |
| solid or stranded  | 0.5 4 mm²   |
| <ul> <li>finely stranded with core end processing</li> </ul>               | 0.5 2.5 mm²   |
| <ul> <li>finely stranded without core end processing</li> </ul>            | 0.5 2.5 mm²   |
| type of connectable conductor cross-sections                               |   |
| • for auxiliary contacts   |   |
| — 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 auxiliary contacts                                      | 2x (20 12)  |
| AWG number as coded connectable conductor cross section                    |   |
| • for main contacts  | 20 12   |
| • for auxiliary contacts   | 20 12   |
| afety related data   |   |
| product function   |   |
| <ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>              | Yes; with 3RH29   |
| <ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul> | No  |
| <ul> <li>suitable for safety function</li> </ul>                           | 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   |
| T1 value   |  |
| <ul> <li>for proof test interval or service life according to IEC<br/>61508</li> </ul> | 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   |  |
|  |  |

CE

**General Product Approval** 





Confirmation



<u>KC</u>

General Product Approval

**EMV** 

**Functional Saftey** 

**Test Certificates** 





Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certificate

**Miscellaneous** 

## Marine / Shipping













other Railway Dangerous Good Environment

**Miscellaneous** 

Confirmation

Special Test Certificate

Transport Information

EPD

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=3RT2017-2BB41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2BB41

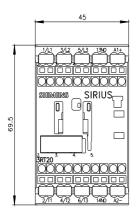
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

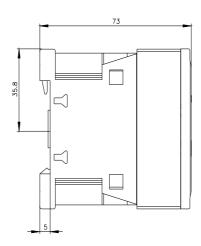
 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2BB41}}$ 

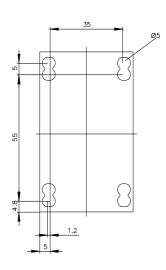
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

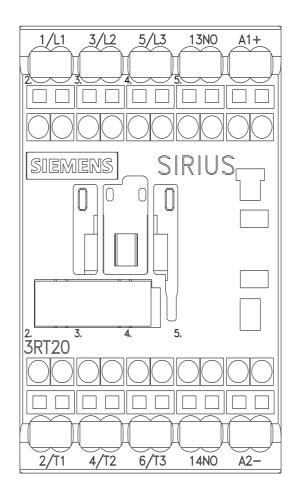
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-2BB41\&lang=en}}$ 

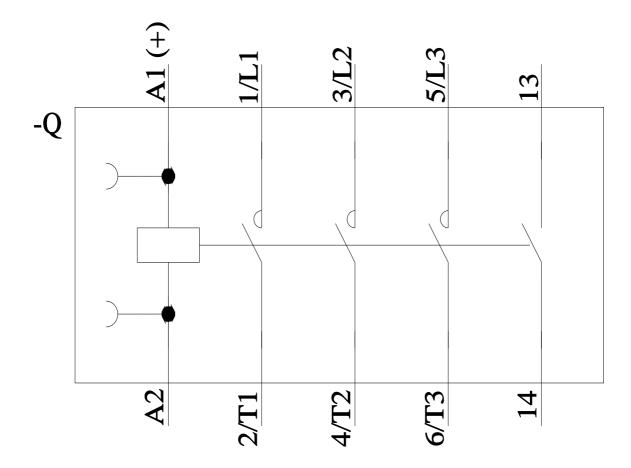
Characteristic: Tripping characteristics, I2t, Let-through current











last modified: 7/19/2024 🖸