

power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NC, 24 V DC 0.85-1.85\*US 3-pole, size S00 screw terminal not expandable with auxiliary switch



|                                                                                  |                |
|----------------------------------------------------------------------------------|----------------|
| product brand name                                                               | SIRIUS         |
| product designation                                                              | Coupling relay |
| product type designation                                                         | 3RT2           |
| General technical data                                                           |                |
| 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                                                   | 3.6 W          |
| • at AC in hot operating state per pole                                          | 1.2 W          |
| power loss [W] for rated value of the current without load current share typical | 1.6 W          |
| surge voltage resistance                                                         |                |
| • of main circuit rated value                                                    | 6 kV           |
| • of auxiliary circuit rated value                                               | 6 kV           |
| maximum permissible voltage for safe isolation                                   |                |
| • between coil and main contacts acc. to EN 60947-1                              | 400 V          |

|                                                   |                            |
|---------------------------------------------------|----------------------------|
| <b>protection class IP</b>                        |                            |
| • on the front                                    | IP20                       |
| • of the terminal                                 | IP20                       |
| <b>shock resistance at rectangular impulse</b>    |                            |
| • at DC                                           | 7.3g / 5 ms, 4.7g / 10 ms  |
| <b>shock resistance with sine pulse</b>           |                            |
| • at DC                                           | 11,4g / 5 ms, 7,3g / 10 ms |
| <b>mechanical service life (switching cycles)</b> |                            |
| • of contactor typical                            | 30 000 000                 |
| <b>reference code acc. to DIN EN 81346-2</b>      | Q                          |

|                                                           |                |
|-----------------------------------------------------------|----------------|
| <b>Ambient conditions</b>                                 |                |
| • installation altitude at height above sea level maximum | 2 000 m        |
| <b>ambient temperature</b>                                |                |
| • during operation                                        | -25 ... +60 °C |
| • during storage                                          | -55 ... +80 °C |

|                                                        |        |
|--------------------------------------------------------|--------|
| <b>Main circuit</b>                                    |        |
| <b>number of poles for main current circuit</b>        | 3      |
| <b>number of NO contacts for main contacts</b>         | 3      |
| <b>operating voltage</b>                               |        |
| • at AC-3 rated value maximum                          | 690 V  |
| <b>operating current</b>                               |        |
| • at AC-1 at 400 V                                     |        |
| — at ambient temperature 40 °C rated value             | 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-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             |
| <b>minimum cross-section in main circuit</b>                         |                   |
| • at maximum AC-1 rated value                                        | 4 mm <sup>2</sup> |
| <b>operating current for approx. 200000 operating cycles at AC-4</b> |                   |
| • at 400 V rated value                                               | 4.1 A             |
| • at 690 V rated value                                               | 3.3 A             |
| <b>operating current</b>                                             |                   |
| • at 1 current path at DC-1                                          |                   |
| — at 24 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 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             |
| • with 3 current paths in series at DC-1                             |                   |
| — at 24 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               |
| <b>operating current</b>                                             |                   |
| • at 1 current path at DC-3 at DC-5                                  |                   |
| — at 24 V rated value                                                | 20 A              |
| — at 110 V rated value                                               | 0.1 A             |
| • with 2 current paths in series at DC-3 at DC-5                     |                   |

|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                            |
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| <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>• with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul> | 20 A<br>0.35 A<br><br>20 A<br>20 A<br>1.5 A<br>0.2 A<br>0.2 A                                                                                                                              |
| <b>operating power</b> <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul>                                                                                                               | 3 kW<br>5.5 kW<br>5.5 kW<br>5.5 kW                                                                                                                                                         |
| <b>operating power for approx. 200000 operating cycles at AC-4</b> <ul style="list-style-type: none"> <li>• at 400 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                                                | 2 kW<br>2.5 kW                                                                                                                                                                             |
| <b>operating apparent output at AC-6a</b> <ul style="list-style-type: none"> <li>• up to 230 V for current peak value n=20 rated value</li> <li>• up to 400 V for current peak value n=20 rated value</li> <li>• up to 500 V for current peak value n=20 rated value</li> <li>• up to 690 V for current peak value n=20 rated value</li> </ul>                             | 2.8 kV·A<br>4.9 kV·A<br>6.2 kV·A<br>8 kV·A                                                                                                                                                 |
| <b>operating apparent output at AC-6a</b> <ul style="list-style-type: none"> <li>• up to 230 V for current peak value n=30 rated value</li> <li>• up to 400 V for current peak value n=30 rated value</li> <li>• up to 500 V for current peak value n=30 rated value</li> <li>• up to 690 V for current peak value n=30 rated value</li> </ul>                             | 1.9 kV·A<br>3.3 kV·A<br>4.1 kV·A<br>5.7 kV·A                                                                                                                                               |
| <b>short-time withstand current in cold operating state up to 40 °C</b> <ul style="list-style-type: none"> <li>• limited to 1 s switching at zero current maximum</li> <li>• limited to 5 s switching at zero current maximum</li> <li>• limited to 10 s switching at zero current maximum</li> </ul>                                                                      | 200 A; Use minimum cross-section acc. to AC-1 rated value<br><br>123 A; Use minimum cross-section acc. to AC-1 rated value<br><br>96 A; Use minimum cross-section acc. to AC-1 rated value |

|                                                                                                                                                                    |                                                                                                                          |
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| <ul style="list-style-type: none"> <li>• limited to 30 s switching at zero current maximum</li> <li>• limited to 60 s switching at zero current maximum</li> </ul> | 74 A; Use minimum cross-section acc. to AC-1 rated value<br><br>61 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>no-load switching frequency</b>                                                                                                                                 |                                                                                                                          |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                          | 10 000 1/h                                                                                                               |
| <b>operating frequency</b>                                                                                                                                         |                                                                                                                          |
| <ul style="list-style-type: none"> <li>• at AC-1 maximum</li> <li>• at AC-2 maximum</li> <li>• at AC-3 maximum</li> <li>• at AC-4 maximum</li> </ul>               | 1 000 1/h<br>750 1/h<br>750 1/h<br>250 1/h                                                                               |

| Control circuit/ Control                                                                      |                  |
|-----------------------------------------------------------------------------------------------|------------------|
| <b>type of voltage of the control supply voltage</b>                                          | DC               |
| <b>control supply voltage at DC</b>                                                           |                  |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                               | 24 V             |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b>         |                  |
| <ul style="list-style-type: none"> <li>• initial value</li> <li>• full-scale value</li> </ul> | 0.85<br>1.85     |
| <b>closing power of magnet coil at DC</b>                                                     | 1.6 W            |
| <b>holding power of magnet coil at DC</b>                                                     | 1.6 W            |
| <b>closing delay</b>                                                                          |                  |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                     | 30 ... 100 ms    |
| <b>opening delay</b>                                                                          |                  |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                     | 7 ... 13 ms      |
| <b>arcing time</b>                                                                            | 10 ... 15 ms     |
| <b>control version of the switch operating mechanism</b>                                      | Standard A1 - A2 |

| Auxiliary circuit                                                                                                                                                                                     |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>number of NC contacts for auxiliary contacts</b>                                                                                                                                                   |                                  |
| <ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>                                                                                                                             | 1                                |
| <b>operating current at AC-12 maximum</b>                                                                                                                                                             | 10 A                             |
| <b>operating current at AC-15</b>                                                                                                                                                                     |                                  |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul>                              | 10 A<br>3 A<br>2 A<br>1 A        |
| <b>operating current at DC-12</b>                                                                                                                                                                     |                                  |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> </ul> | 10 A<br>6 A<br>6 A<br>3 A<br>2 A |

|                                                                                                                                                                                                                                                                       |                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                              | 1 A<br>0.15 A                                        |
| <b>operating current at DC-13</b>                                                                                                                                                                                                                                     |                                                      |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul> | 10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A |
| <b>contact reliability of auxiliary contacts</b>                                                                                                                                                                                                                      | 1 faulty switching per 100 million (17 V, 1 mA)      |

#### UL/CSA ratings

|                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>full-load current (FLA) for three-phase AC motor</b>                                                                                                                                                                                                                                                                                                                                                                   |                                                   |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                  | 11 A<br>11 A                                      |
| <b>yielded mechanical performance [hp]</b>                                                                                                                                                                                                                                                                                                                                                                                |                                                   |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor <ul style="list-style-type: none"> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul> </li> <li>• for three-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul> | 0.5 hp<br>2 hp<br>3 hp<br>3 hp<br>7.5 hp<br>10 hp |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                               | A600 / Q600                                       |

#### Short-circuit protection

|                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>design of the fuse link</b>                                                                                                                                                                                                                                                                                        |                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul> | gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)<br>gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)<br>gG: 10 A (500 V, 1 kA) |

#### Installation/ mounting/ dimensions

|                                                                           |                                                                                                                                      |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>mounting position</b>                                                  | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| <b>mounting type</b>                                                      | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715                                               |
| <ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul> | Yes                                                                                                                                  |
| <b>height</b>                                                             | 58 mm                                                                                                                                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 45 mm |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 73 mm |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards 10 mm</li> <li>— upwards 10 mm</li> <li>— downwards 10 mm</li> <li>— at the side 0 mm</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 10 mm</li> <li>— upwards 10 mm</li> <li>— at the side 6 mm</li> <li>— downwards 10 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 10 mm</li> <li>— upwards 10 mm</li> <li>— downwards 10 mm</li> <li>— at the side 6 mm</li> </ul> </li> </ul> |       |

## Connections/ Terminals

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>type of electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                              |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> <li>• at contactor for auxiliary contacts</li> <li>• of magnet coil</li> </ul>                                                                                                                                                                                                                                                                                                                                                    | screw-type terminals<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                              |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), 2x 4 mm<sup>2</sup></li> <li>— single or multi-stranded 2x (0,5 ... 1,5 mm<sup>2</sup>), 2x (0,75 ... 2,5 mm<sup>2</sup>), 2x 4 mm<sup>2</sup></li> <li>— finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</li> </ul> </li> <li>• at AWG conductors for main contacts 2x (20 ... 16), 2x (18 ... 14), 2x 12</li> </ul> |                                                                                              |
| <b>connectable conductor cross-section for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                              |
| <ul style="list-style-type: none"> <li>• solid 0.5 ... 4 mm<sup>2</sup></li> <li>• stranded 0.5 ... 4 mm<sup>2</sup></li> <li>• finely stranded with core end processing 0.5 ... 2.5 mm<sup>2</sup></li> </ul>                                                                                                                                                                                                                                                                                                                                                |                                                                                              |
| <b>connectable conductor cross-section for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                              |
| <ul style="list-style-type: none"> <li>• single or multi-stranded 0.5 ... 4 mm<sup>2</sup></li> <li>• finely stranded with core end processing 0.5 ... 2.5 mm<sup>2</sup></li> </ul>                                                                                                                                                                                                                                                                                                                                                                          |                                                                                              |
| <ul style="list-style-type: none"> <li>• type of connectable conductor cross-sections for auxiliary contacts <ul style="list-style-type: none"> <li>— single or multi-stranded 2x (0,5 ... 1,5 mm<sup>2</sup>), 2x (0,75 ... 2,5 mm<sup>2</sup>), 2x 4 mm<sup>2</sup></li> </ul> </li> </ul>                                                                                                                                                                                                                                                                  |                                                                                              |

|                                                                                                                                                                                               |                                                                                                                |
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| <ul style="list-style-type: none"> <li>— finely stranded with core end processing</li> <li>• type of connectable conductor cross-sections at AWG conductors for auxiliary contacts</li> </ul> | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 2x 12 |
| <b>AWG number as coded connectable conductor cross section</b>                                                                                                                                |                                                                                                                |
| <ul style="list-style-type: none"> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul>                                                                                       | 20 ... 12<br>20 ... 12                                                                                         |

| Safety related data                                                                                                                         |              |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>B10 value</b>                                                                                                                            |              |
| <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul>                                                  | 1 000 000    |
| <b>proportion of dangerous failures</b>                                                                                                     |              |
| <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> <li>• with high demand rate acc. to SN 31920</li> </ul> | 40 %<br>73 % |
| <b>failure rate [FIT]</b>                                                                                                                   |              |
| <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> </ul>                                                   | 100 FIT      |
| <b>product function</b>                                                                                                                     |              |
| <ul style="list-style-type: none"> <li>• mirror contact acc. to IEC 60947-4-1</li> </ul>                                                    | Yes          |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b>                                                                   | 20 y         |
| <b>protection against electrical shock</b>                                                                                                  | finger-safe  |
| suitability for use safety-related switching OFF                                                                                            | Yes          |

## Certificates/ approvals

| General Product Approval | EMC |
|--------------------------|-----|
|--------------------------|-----|



[KC](#)



| Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------------------|---------------------------|-------------------|-------------------|
|---------------------------------------|---------------------------|-------------------|-------------------|

[Type Examination Certificate](#)



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



| Marine / Shipping |
|-------------------|
|-------------------|



| other | Railway |
|-------|---------|
|-------|---------|

[Confirmation](#)



[Vibration and Shock](#)

| Further information |
|---------------------|
|---------------------|

**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=3RT2017-1MB42-0KT0>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1MB42-0KT0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1MB42-0KT0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2017-1MB42-0KT0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-1MB42-0KT0&lang=en)

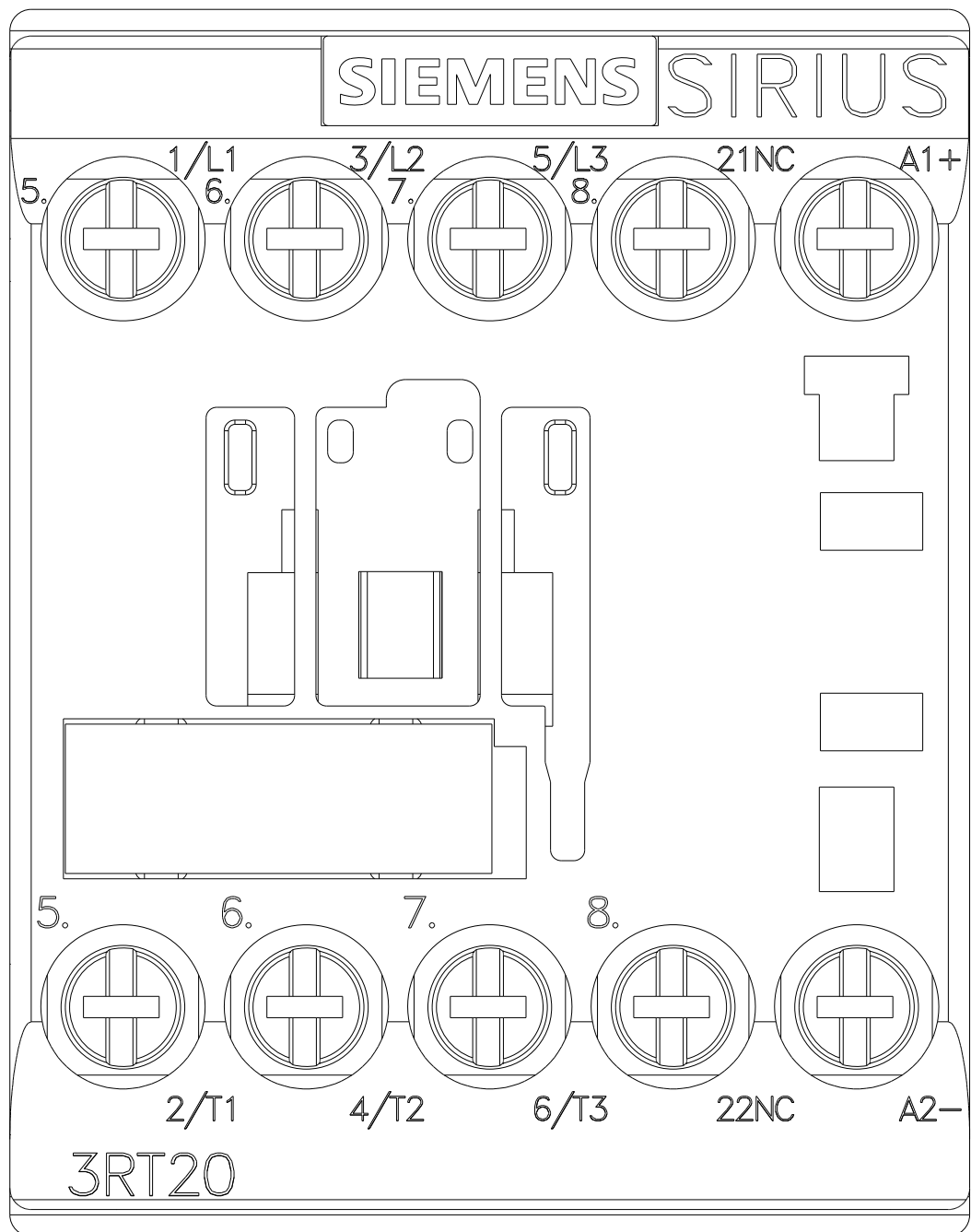
**Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current**

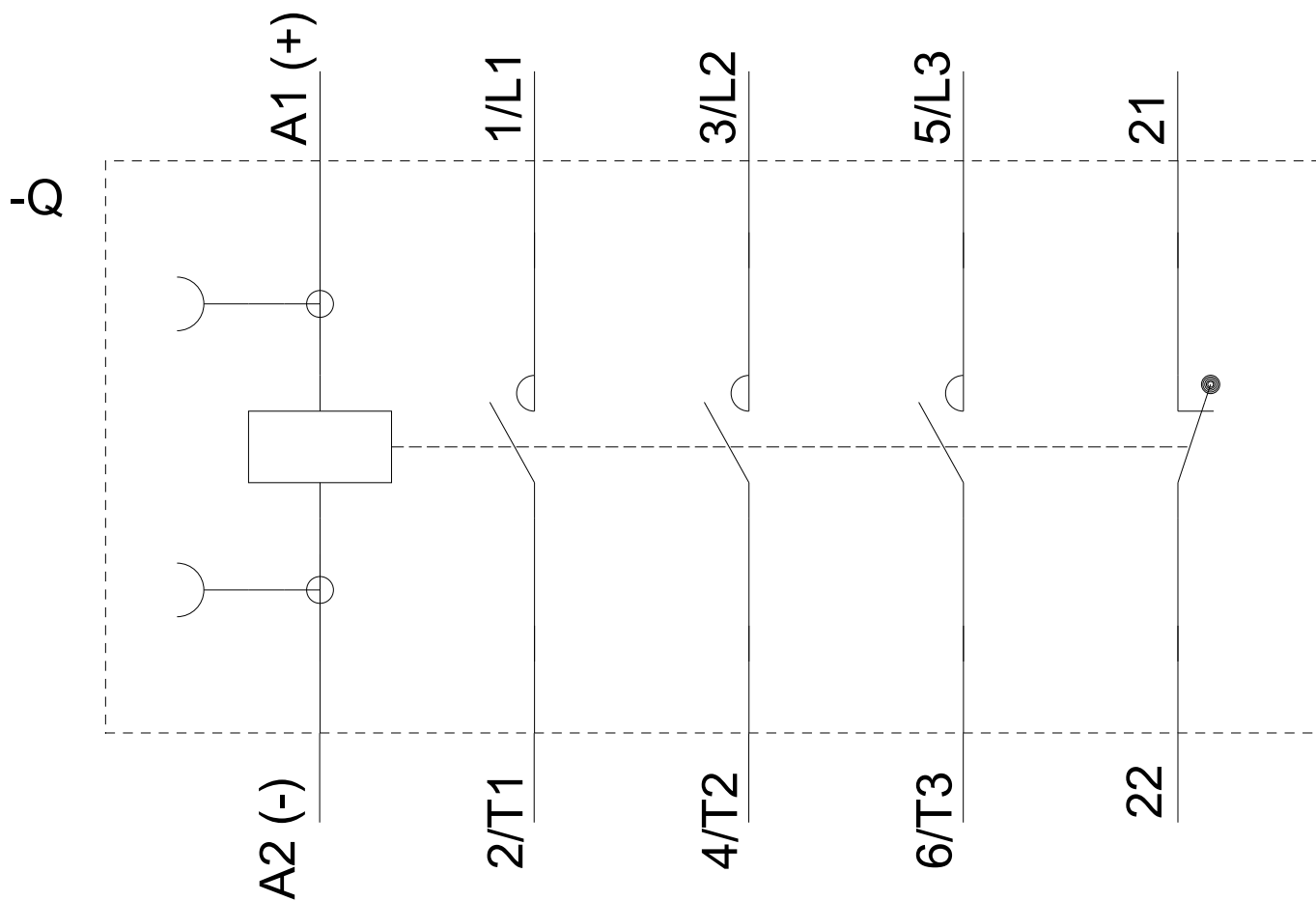
<https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1MB42-0KT0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1MB42-0KT0&objecttype=14&gridview=view1>







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