

power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO + 1 NC, 110 V AC, 50 Hz 3-pole, Size S0 screw terminal



|                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| product brand name                                                               | SIRIUS          |
| product designation                                                              | Power contactor |
| product type designation                                                         | 3RT2            |
| General technical data                                                           |                 |
| size of contactor                                                                | S0              |
| product extension                                                                |                 |
| • function module for communication                                              | No              |
| • auxiliary switch                                                               | Yes             |
| power loss [W] for rated value of the current                                    |                 |
| • at AC in hot operating state                                                   | 1.5 W           |
| • at AC in hot operating state per pole                                          | 0.5 W           |
| power loss [W] for rated value of the current without load current share typical | 7.6 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 AC                                                                               | 7,5g / 5 ms, 4,7g / 10 ms  |
| <b>shock resistance with sine pulse</b>                                               |                            |
| • at AC                                                                               | 11,8g / 5 ms, 7,4g / 10 ms |
| <b>mechanical service life (switching cycles)</b>                                     |                            |
| • of contactor typical                                                                | 10 000 000                 |
| • of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000                  |
| • of the contactor with added auxiliary switch block typical                          | 10 000 000                 |
| <b>reference code acc. to IEC 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>operational current</b>                                          |        |
| • at AC-1 at 400 V<br>— at ambient temperature 40 °C rated value    | 40 A   |
| • at AC-1<br>— up to 690 V at ambient temperature 40 °C rated value | 40 A   |
| — up to 690 V at ambient temperature 60 °C rated value              | 35 A   |
| • at AC-3<br>— at 400 V rated value                                 | 12 A   |
| — at 500 V rated value                                              | 12 A   |
| — at 690 V rated value                                              | 9 A    |
| • at AC-4 at 400 V rated value                                      | 12.5 A |
| • at AC-5a up to 690 V rated value                                  | 35.2 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                  | 11.4 A             |
| — up to 400 V for current peak value n=20 rated value                  | 11.4 A             |
| — up to 500 V for current peak value n=20 rated value                  | 11.3 A             |
| — up to 690 V for current peak value n=20 rated value                  | 9 A                |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=30 rated value                  | 7.6 A              |
| — up to 400 V for current peak value n=30 rated value                  | 7.6 A              |
| — up to 500 V for current peak value n=30 rated value                  | 7.6 A              |
| — up to 690 V for current peak value n=30 rated value                  | 7.6 A              |
| <b>minimum cross-section in main circuit</b>                           |                    |
| • at maximum AC-1 rated value                                          | 10 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                    |
| • at 400 V rated value                                                 | 5.5 A              |
| • at 690 V rated value                                                 | 5.5 A              |
| <b>operational current</b>                                             |                    |
| • at 1 current path at DC-1                                            |                    |
| — at 24 V rated value                                                  | 35 A               |
| — at 110 V rated value                                                 | 4.5 A              |
| — at 220 V rated value                                                 | 1 A                |
| — at 440 V rated value                                                 | 0.4 A              |
| — at 600 V rated value                                                 | 0.25 A             |
| • with 2 current paths in series at DC-1                               |                    |
| — at 24 V rated value                                                  | 35 A               |
| — at 110 V rated value                                                 | 35 A               |
| — at 220 V rated value                                                 | 5 A                |
| — at 440 V rated value                                                 | 1 A                |
| — at 600 V rated value                                                 | 0.8 A              |
| • with 3 current paths in series at DC-1                               |                    |
| — at 24 V rated value                                                  | 35 A               |
| — at 110 V rated value                                                 | 35 A               |
| — at 220 V rated value                                                 | 35 A               |
| — at 440 V rated value                                                 | 2.9 A              |
| — at 600 V rated value                                                 | 1.4 A              |
| <b>operational current</b>                                             |                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                       |
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| <ul style="list-style-type: none"> <li>• at 1 current path 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> <li>• with 2 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> <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>2.5 A<br>1 A<br>0.09 A<br>0.06 A<br><br>35 A<br>15 A<br>3 A<br>0.27 A<br>0.16 A<br><br>35 A<br>35 A<br>10 A<br>0.6 A<br>0.6 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>7.5 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.6 kW<br>4.6 kW                                                                                                                      |
| <b>operating apparent power 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4.5 kV·A<br>7.8 kV·A<br>9.8 kV·A<br>10.7 kV·A                                                                                         |
| <b>operating apparent power 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> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3 kV·A<br>5.2 kV·A                                                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                              |
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| <ul style="list-style-type: none"> <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>                                                                                                                                                                                                                                                          | 6.5 kV·A<br><br>9 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> <li>• limited to 30 s switching at zero current maximum</li> <li>• limited to 60 s switching at zero current maximum</li> </ul> | 210 A; Use minimum cross-section acc. to AC-1 rated value<br><br>210 A; Use minimum cross-section acc. to AC-1 rated value<br><br>162 A; Use minimum cross-section acc. to AC-1 rated value<br><br>103 A; Use minimum cross-section acc. to AC-1 rated value<br><br>88 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 AC</li> </ul>                                                                                                                                                                                                                                                                                                                                    | 5 000 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>1 000 1/h<br>1 000 1/h<br>300 1/h                                                                                                                                                                                                                                                                               |

| Control circuit/ Control                                                                                                                           |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>type of voltage of the control supply voltage</b>                                                                                               | AC          |
| <b>control supply voltage at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> </ul>                                       | 110 V       |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul> | 0.8 ... 1.1 |
| <b>apparent pick-up power of magnet coil at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                    | 65 V·A      |
| <b>inductive power factor with closing power of the coil</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 0.82        |
| <b>apparent holding power of magnet coil at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                    | 7.6 V·A     |
| <b>inductive power factor with the holding power of the coil</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                      | 0.25        |
| <b>closing delay</b> <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                     | 9 ... 38 ms |
| <b>opening delay</b> <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                     | 4 ... 16 ms |

|                                                     |                                                 |
|-----------------------------------------------------|-------------------------------------------------|
| arcing time                                         | 10 ... 10 ms                                    |
| control version of the switch operating mechanism   | Standard A1 - A2                                |
| <b>Auxiliary circuit</b>                            |                                                 |
| <b>number of NC contacts for auxiliary contacts</b> |                                                 |
| • instantaneous contact                             | 1                                               |
| <b>number of NO contacts for auxiliary contacts</b> |                                                 |
| • instantaneous contact                             | 1                                               |
| operational current at AC-12 maximum                | 10 A                                            |
| <b>operational current at AC-15</b>                 |                                                 |
| • 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                                             |
| <b>operational current at DC-12</b>                 |                                                 |
| • 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                                          |
| <b>operational current at DC-13</b>                 |                                                 |
| • 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                                           |
| <b>contact reliability of auxiliary contacts</b>    | 1 faulty switching per 100 million (17 V, 1 mA) |
| <b>UL/CSA ratings</b>                               |                                                 |
| <b>full-load current (FLA) for 3-phase AC motor</b> |                                                 |
| • at 480 V rated value                              | 11 A                                            |
| • at 600 V rated value                              | 11 A                                            |
| <b>yielded mechanical performance [hp]</b>          |                                                 |
| • for single-phase AC motor                         |                                                 |
| — at 110/120 V rated value                          | 1 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       |
| <b>contact rating of auxiliary contacts according to UL</b> | A600 / P600 |

## 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: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)<br>gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)<br>gG: 10 A (500 V, 1 kA) |

## Installation/ mounting/ dimensions

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                      |
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| <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>fastening method</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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85 mm                                                                                                                                |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 45 mm                                                                                                                                |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 97 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</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts           <ul style="list-style-type: none"> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul> </li> <li>for live parts           <ul style="list-style-type: none"> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> </ul> | 10 mm<br>10 mm<br>10 mm<br>0 mm<br><br>10 mm<br>10 mm<br>6 mm<br>10 mm<br><br>10 mm<br>10 mm<br>10 mm<br>6 mm                        |

## 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 circuit</li> </ul> | screw-type terminals<br>screw-type terminals |

|                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at contactor for auxiliary contacts</li> <li>• of magnet coil</li> </ul>                                                                                                                                                                                                | 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</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for main contacts</li> </ul> | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2,5 mm <sup>2</sup> ), 2x (2,5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup><br>2x (16 ... 12), 2x (14 ... 8) |
| <b>connectable conductor cross-section for main contacts</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                   | 1 ... 10 mm <sup>2</sup><br>1 ... 10 mm <sup>2</sup><br>1 ... 10 mm <sup>2</sup>                                                                                                                                                                                   |
| <b>connectable conductor cross-section for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                      | 0.5 ... 2.5 mm <sup>2</sup><br>0.5 ... 2.5 mm <sup>2</sup>                                                                                                                                                                                                         |
| <b>type of connectable conductor cross-sections for auxiliary contacts</b> <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>                                                                                                             | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                                                                                                     |
| <b>type of connectable conductor cross-sections at AWG cables for auxiliary contacts</b>                                                                                                                                                                                                                         | 2x (20 ... 16), 2x (18 ... 14)                                                                                                                                                                                                                                     |
| <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>                                                                                                                                           | 16 ... 8<br>20 ... 14                                                                                                                                                                                                                                              |

#### 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>touch protection against electrical shock</b>                                                                                                                                    | finger-safe  |
| suitability for use safety-related switching OFF                                                                                                                                    | Yes          |

#### Certificates/ approvals

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



[KC](#)



|                           |                   |                   |
|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



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



[Confirmation](#)



#### 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=3RT2024-1AF00>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1AF00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AF00>

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

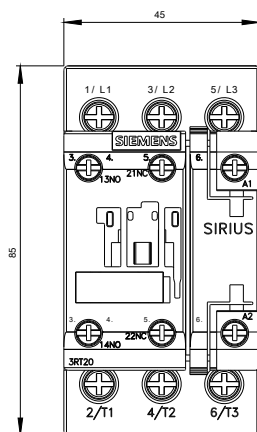
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2024-1AF00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-1AF00&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AF00/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-1AF00&objecttype=14&gridview=view1>







last modified:

11/19/2020