

Power contactor, AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 Busbar connections Drive: conventional screw terminal



|                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| product brand name                                                               | SIRIUS          |
| product designation                                                              | Power contactor |
| product type designation                                                         | 3RT1            |
| General technical data                                                           |                 |
| size of contactor                                                                | S6              |
| 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                                                   | 39 W            |
| • at AC in hot operating state per pole                                          | 13 W            |
| power loss [W] for rated value of the current without load current share typical | 5.2 W           |
| surge voltage resistance                                                         |                 |
| • of main circuit rated value                                                    | 8 kV            |
| • of auxiliary circuit rated value                                               | 6 kV            |
| maximum permissible voltage for safe isolation                                   |                 |
| • between coil and main contacts acc. to EN 60947-1                              | 690 V           |

|                                                                                                                                                                                                                                               |                                                           |
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| <b>protection class IP</b>                                                                                                                                                                                                                    |                                                           |
| <ul style="list-style-type: none"> <li>• on the front</li> <li>• of the terminal</li> </ul>                                                                                                                                                   | IP00; IP20 on the front with cover / box terminal<br>IP00 |
| <b>shock resistance at rectangular impulse</b>                                                                                                                                                                                                |                                                           |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                                                                                                                                    | 8,5g / 5 ms, 4,2g / 10 ms<br>8,5g / 5 ms, 4,2g / 10 ms    |
| <b>shock resistance with sine pulse</b>                                                                                                                                                                                                       |                                                           |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                                                                                                                                    | 13,4g / 5 ms, 6,5g / 10 ms<br>13,4g / 5 ms, 6,5g / 10 ms  |
| <b>mechanical service life (switching cycles)</b>                                                                                                                                                                                             |                                                           |
| <ul style="list-style-type: none"> <li>• of contactor typical</li> <li>• of the contactor with added electronically optimized auxiliary switch block typical</li> <li>• of the contactor with added auxiliary switch block typical</li> </ul> | 10 000 000<br>5 000 000<br>10 000 000                     |
| <b>reference code acc. to IEC 81346-2</b>                                                                                                                                                                                                     | Q                                                         |

|                                                                                                             |                                  |
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| <b>Ambient conditions</b>                                                                                   |                                  |
| <ul style="list-style-type: none"> <li>• installation altitude at height above sea level maximum</li> </ul> | 2 000 m                          |
| <b>ambient temperature</b>                                                                                  |                                  |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>              | -25 ... +60 °C<br>-55 ... +80 °C |

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| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                             |
| <ul style="list-style-type: none"> <li>• at AC-3 rated value maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 000 V                                                     |
| <b>operational current</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                             |
| <ul style="list-style-type: none"> <li>• at AC-1 at 400 V <ul style="list-style-type: none"> <li>— at ambient temperature 40 °C rated value</li> </ul> </li> <li>• at AC-1 <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 40 °C rated value</li> <li>— up to 690 V at ambient temperature 60 °C rated value</li> <li>— up to 1000 V at ambient temperature 40 °C rated value</li> <li>— up to 1000 V at ambient temperature 60 °C rated value</li> </ul> </li> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> </ul> </li> </ul> | 215 A<br>215 A<br>185 A<br>100 A<br>100 A<br>185 A<br>185 A |

|                                                                        |                    |
|------------------------------------------------------------------------|--------------------|
| — at 690 V rated value                                                 | 170 A              |
| — at 1000 V rated value                                                | 65 A               |
| • at AC-4 at 400 V rated value                                         | 160 A              |
| • at AC-5a up to 690 V rated value                                     | 189 A              |
| • at AC-5b up to 400 V rated value                                     | 153 A              |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=20 rated value                  | 157 A              |
| — up to 400 V for current peak value n=20 rated value                  | 157 A              |
| — up to 500 V for current peak value n=20 rated value                  | 157 A              |
| — up to 690 V for current peak value n=20 rated value                  | 157 A              |
| — up to 1000 V for current peak value n=20 rated value                 | 65 A               |
| • at AC-6a                                                             |                    |
| — up to 230 V for current peak value n=30 rated value                  | 105 A              |
| — up to 400 V for current peak value n=30 rated value                  | 105 A              |
| — up to 500 V for current peak value n=30 rated value                  | 105 A              |
| — up to 690 V for current peak value n=30 rated value                  | 105 A              |
| — up to 1000 V for current peak value n=30 rated value                 | 65 A               |
| <b>minimum cross-section in main circuit</b>                           |                    |
| • at maximum AC-1 rated value                                          | 95 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                    |
| • at 400 V rated value                                                 | 81 A               |
| • at 690 V rated value                                                 | 65 A               |
| <b>operational current</b>                                             |                    |
| • at 1 current path at DC-1                                            |                    |
| — at 24 V rated value                                                  | 160 A              |
| — at 110 V rated value                                                 | 18 A               |
| — at 220 V rated value                                                 | 3.4 A              |
| — at 440 V rated value                                                 | 0.8 A              |
| — at 600 V rated value                                                 | 0.5 A              |
| • with 2 current paths in series at DC-1                               |                    |
| — at 24 V rated value                                                  | 160 A              |
| — at 110 V rated value                                                 | 160 A              |

|                                                                    |             |
|--------------------------------------------------------------------|-------------|
| — at 220 V rated value                                             | 20 A        |
| — at 440 V rated value                                             | 3.2 A       |
| — at 600 V rated value                                             | 1.6 A       |
| • with 3 current paths in series at DC-1                           |             |
| — at 24 V rated value                                              | 160 A       |
| — at 110 V rated value                                             | 160 A       |
| — at 220 V rated value                                             | 160 A       |
| — at 440 V rated value                                             | 11.5 A      |
| — at 600 V rated value                                             | 4 A         |
| <b>operational current</b>                                         |             |
| • at 1 current path at DC-3 at DC-5                                |             |
| — at 24 V rated value                                              | 160 A       |
| — at 110 V rated value                                             | 2.5 A       |
| — at 220 V rated value                                             | 0.6 A       |
| — at 440 V rated value                                             | 0.17 A      |
| — at 600 V rated value                                             | 0.12 A      |
| • with 2 current paths in series at DC-3 at DC-5                   |             |
| — at 24 V rated value                                              | 160 A       |
| — at 110 V rated value                                             | 160 A       |
| — at 220 V rated value                                             | 2.5 A       |
| — at 440 V rated value                                             | 0.65 A      |
| — at 600 V rated value                                             | 0.37 A      |
| • with 3 current paths in series at DC-3 at DC-5                   |             |
| — at 24 V rated value                                              | 160 A       |
| — at 110 V rated value                                             | 160 A       |
| — at 220 V rated value                                             | 160 A       |
| — at 440 V rated value                                             | 1.4 A       |
| — at 600 V rated value                                             | 0.75 A      |
| <b>operating power</b>                                             |             |
| • at AC-3                                                          |             |
| — at 230 V rated value                                             | 55 kW       |
| — at 400 V rated value                                             | 90 kW       |
| — at 500 V rated value                                             | 132 kW      |
| — at 690 V rated value                                             | 160 kW      |
| — at 1000 V rated value                                            | 90 kW       |
| <b>operating power for approx. 200000 operating cycles at AC-4</b> |             |
| • at 400 V rated value                                             | 45 kW       |
| • at 690 V rated value                                             | 65 kW       |
| <b>operating apparent power at AC-6a</b>                           |             |
| • up to 230 V for current peak value n=20 rated value              | 60 000 kV·A |

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                     |
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| <ul style="list-style-type: none"> <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> <li>• up to 1000 V for current peak value n=20 rated value</li> </ul>                                                                                                                           | 100 000 V·A<br><br>130 000 V·A<br><br>180 000 V·A<br><br>110 000 V·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> <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> <li>• up to 1000 V for current peak value n=30 rated value</li> </ul>                   | 40 000 V·A<br><br>70 000 V·A<br><br>90 000 V·A<br><br>120 000 V·A<br><br>110 000 V·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> | 2 900 A; Use minimum cross-section acc. to AC-1 rated value<br><br>2 084 A; Use minimum cross-section acc. to AC-1 rated value<br><br>1 480 A; Use minimum cross-section acc. to AC-1 rated value<br><br>968 A; Use minimum cross-section acc. to AC-1 rated value<br><br>801 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> <li>• at DC</li> </ul>                                                                                                                                                                                                                                                                                                                   | 2 000 1/h<br><br>2 000 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>                                                                                                                                                                                                                                                 | 800 1/h<br><br>300 1/h<br><br>750 1/h<br><br>130 1/h                                                                                                                                                                                                                                                                                |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                     |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                            | AC/DC                                                                                                                                                                                                                                                                                                                               |
| <b>control supply voltage at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>                                                                                                                                                                                                                                                                                    | 110 ... 127 V<br><br>110 ... 127 V                                                                                                                                                                                                                                                                                                  |

|                                                                                       |                  |
|---------------------------------------------------------------------------------------|------------------|
| <b>control supply voltage at DC</b>                                                   |                  |
| • rated value                                                                         | 110 ... 127 V    |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b> |                  |
| • initial value                                                                       | 0.8              |
| • full-scale value                                                                    | 1.1              |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> |                  |
| • at 50 Hz                                                                            | 0.8 ... 1.1      |
| • at 60 Hz                                                                            | 0.8 ... 1.1      |
| <b>design of the surge suppressor</b>                                                 | with varistor    |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |                  |
| • at 50 Hz                                                                            | 300 V·A          |
| <b>inductive power factor with closing power of the coil</b>                          |                  |
| • at 50 Hz                                                                            | 0.9              |
| <b>apparent holding power of magnet coil at AC</b>                                    |                  |
| • at 50 Hz                                                                            | 5.8 V·A          |
| <b>inductive power factor with the holding power of the coil</b>                      |                  |
| • at 50 Hz                                                                            | 0.8              |
| <b>closing power of magnet coil at DC</b>                                             | 360 W            |
| <b>holding power of magnet coil at DC</b>                                             | 5.2 W            |
| <b>closing delay</b>                                                                  |                  |
| • at AC                                                                               | 20 ... 95 ms     |
| • at DC                                                                               | 20 ... 95 ms     |
| <b>opening delay</b>                                                                  |                  |
| • at AC                                                                               | 40 ... 60 ms     |
| • at DC                                                                               | 40 ... 60 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> |      |
| • instantaneous contact                             | 2    |
| <b>number of NO contacts for auxiliary contacts</b> |      |
| • instantaneous contact                             | 2    |
| <b>operational current at AC-12 maximum</b>         | 10 A |
| <b>operational current at AC-15</b>                 |      |
| • at 230 V rated value                              | 6 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>                 |      |

|                                                                                                                                                                                                                                                                       |                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <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>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A    |
| <b>operational 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

|                                                                                                                                                                                                                                                                                                                                                                                   |                                             |
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| <b>full-load current (FLA) for 3-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>                                                                                                                                                                                                                                                                          | 180 A<br>192 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 230 V rated value</li> </ul> </li> <li>• for 3-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> | 30 hp<br>60 hp<br>75 hp<br>150 hp<br>200 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: 355 A (690 V, 100 kA)<br>gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA) |

#### Installation/ mounting/ dimensions

|                          |                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>mounting position</b> | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| <b>fastening method</b>  | screw fixing                                                                                                             |

|                              |        |
|------------------------------|--------|
| • side-by-side mounting      | Yes    |
| <b>height</b>                | 172 mm |
| <b>width</b>                 | 120 mm |
| <b>depth</b>                 | 170 mm |
| <b>required spacing</b>      |        |
| • with side-by-side mounting |        |
| — forwards                   | 20 mm  |
| — upwards                    | 10 mm  |
| — downwards                  | 10 mm  |
| — at the side                | 0 mm   |
| • for grounded parts         |        |
| — forwards                   | 20 mm  |
| — upwards                    | 10 mm  |
| — at the side                | 10 mm  |
| — downwards                  | 10 mm  |
| • for live parts             |        |
| — forwards                   | 20 mm  |
| — upwards                    | 10 mm  |
| — downwards                  | 10 mm  |
| — at the side                | 10 mm  |

| Connections/ Terminals                                                |                                                                                                              |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>width of connection bar</b>                                        | 17 mm                                                                                                        |
| <b>thickness of connection bar</b>                                    | 3 mm                                                                                                         |
| <b>diameter of holes</b>                                              | 9 mm                                                                                                         |
| <b>number of holes</b>                                                | 1                                                                                                            |
| <b>type of electrical connection</b>                                  |                                                                                                              |
| • for main current circuit                                            | Connection bar                                                                                               |
| • for auxiliary and control circuit                                   | screw-type terminals                                                                                         |
| • at contactor for auxiliary contacts                                 | Screw-type terminals                                                                                         |
| • of magnet coil                                                      | Screw-type terminals                                                                                         |
| <b>type of connectable conductor cross-sections</b>                   |                                                                                                              |
| • at AWG cables for main contacts                                     | 4 ... 250 kcmil                                                                                              |
| <b>connectable conductor cross-section for main contacts</b>          |                                                                                                              |
| • stranded                                                            | 25 ... 120 mm <sup>2</sup>                                                                                   |
| <b>connectable conductor cross-section for auxiliary contacts</b>     |                                                                                                              |
| • solid or stranded                                                   | 0.5 ... 4 mm <sup>2</sup>                                                                                    |
| • finely stranded with core end processing                            | 0.5 ... 2.5 mm <sup>2</sup>                                                                                  |
| • type of connectable conductor cross-sections for auxiliary contacts |                                                                                                              |
| — solid                                                               | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 4 mm <sup>2</sup> ) |

|                                                                                     |                                                                       |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| — solid or stranded                                                                 | 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²) |
| — finely stranded with core end processing                                          | 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)                           |
| • type of connectable conductor cross-sections at AWG cables for auxiliary contacts | 2x (20 ... 16), 2x (18 ... 14), 1x 12                                 |
| <b>AWG number as coded connectable conductor cross section</b>                      |                                                                       |
| • for auxiliary contacts                                                            | 18 ... 14                                                             |

| Safety related data                                 |                                                                  |
|-----------------------------------------------------|------------------------------------------------------------------|
| <b>B10 value</b>                                    |                                                                  |
| • with high demand rate acc. to SN 31920            | 1 000 000                                                        |
| <b>product function</b>                             |                                                                  |
| • mirror contact acc. to IEC 60947-4-1              | Yes                                                              |
| • positively driven operation acc. to IEC 60947-5-1 | No                                                               |
| <b>touch protection against electrical shock</b>    | finger-safe when touched vertically from front acc. to IEC 60529 |
| suitability for use safety-related switching OFF    | Yes                                                              |

### Certificates/ approvals

| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EMC |
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|  CSA  CCC  UL  KC  EAC  RCM |     |

| Declaration of Conformity                                                                                                  | Test Certificates                                                                                                         | Marine / Shipping                                                                         |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|  EG-Konf. <a href="#">Miscellaneous</a> | <a href="#">Type Test Certificates/Test Report</a> <a href="#">Special Test Certificate</a> <a href="#">Miscellaneous</a> |  ABS |

| Marine / Shipping                                                                                                                                                                   | other                        | Railway                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------|
|  RMRS  DNV-GL | <a href="#">Confirmation</a> | <a href="#">Special Test Certificate</a> |

### 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=3RT1056-6AF36>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-6AF36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6AF36>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1056-6AF36&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-6AF36&lang=en)

Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6AF36/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6AF36&objecttype=14&gridview=view1>



