



power contactor, AC-3 115 A, 55 kW / 400 V AC (50-60 Hz) / DC operation  
 96-127 V AC/DC auxiliary contacts 1 NO + 1 NC 3-pole, frame size S6  
 busbar connections drive: electronic with PLC / SIMOCODE - interface and  
 remaining lifetime signal

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|---|--|
| <b>product brand name</b>   | SIRIUS   |
| <b>product designation</b>  | Power contactor  |
| <b>product type designation</b>   | 3RT1   |
| <b>General technical data</b>   |  |
| <b>size of contactor</b>  | S6   |
| <b>product extension</b>  |  |
| <ul style="list-style-type: none"> <li>function module for communication</li> <li>auxiliary switch</li> </ul>   | No<br>Yes  |
| <b>power loss [W] for rated value of the current</b>  |  |
| <ul style="list-style-type: none"> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> </ul>   | 21 W<br>7 W<br>2.8 W                                     |
| <b>insulation voltage</b>   |  |
| <ul style="list-style-type: none"> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>   | 1 000 V<br>500 V   |
| <b>surge voltage resistance</b>   |  |
| <ul style="list-style-type: none"> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> </ul>   | 8 kV<br>6 kV   |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1   | 690 V  |
| <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 according to IEC 81346-2</b>  | Q  |
| <b>Substance Prohibitance (Date)</b>  | 05/01/2012   |
| <b>Ambient conditions</b>   |  |
| installation altitude at height above sea level maximum   | 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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| relative humidity minimum  | 10 %               |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum         | 95 %               |
| <b>Main circuit</b>  |                    |
| number of poles for main current circuit                               | 3                  |
| number of NO contacts for main contacts                                | 3                  |
| <b>operating voltage</b>   |                    |
| • at AC-3 rated value maximum  | 1 000 V            |
| • at AC-3e rated value maximum   | 1 000 V            |
| <b>operational current</b>   |                    |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value            | 160 A              |
| • at AC-1  |                    |
| — up to 690 V at ambient temperature 40 °C rated value                 | 160 A              |
| — up to 690 V at ambient temperature 60 °C rated value                 | 140 A              |
| — up to 1000 V at ambient temperature 40 °C rated value                | 80 A               |
| — up to 1000 V at ambient temperature 60 °C rated value                | 80 A               |
| • at AC-3  |                    |
| — at 400 V rated value   | 115 A              |
| — at 500 V rated value   | 115 A              |
| — at 690 V rated value   | 115 A              |
| — at 1000 V rated value  | 53 A               |
| • at AC-3e   |                    |
| — at 400 V rated value   | 115 A              |
| — at 500 V rated value   | 115 A              |
| — at 690 V rated value   | 115 A              |
| — at 1000 V rated value  | 53 A               |
| • at AC-4 at 400 V rated value   | 97 A               |
| • at AC-5a up to 690 V rated value                                     | 140 A              |
| • at AC-5b up to 400 V rated value                                     | 95 A               |
| • at AC-6a   |                    |
| — up to 230 V for current peak value n=20 rated value                  | 115 A              |
| — up to 400 V for current peak value n=20 rated value                  | 115 A              |
| — up to 500 V for current peak value n=20 rated value                  | 115 A              |
| — up to 690 V for current peak value n=20 rated value                  | 115 A              |
| — up to 1000 V for current peak value n=20 rated value                 | 53 A               |
| • at AC-6a   |                    |
| — up to 230 V for current peak value n=30 rated value                  | 98 A               |
| — up to 400 V for current peak value n=30 rated value                  | 98 A               |
| — up to 500 V for current peak value n=30 rated value                  | 98 A               |
| — up to 690 V for current peak value n=30 rated value                  | 98 A               |
| — up to 1000 V for current peak value n=30 rated value                 | 53 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value      | 70 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                    |
| • at 400 V rated value   | 54 A               |
| • at 690 V rated value   | 48 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      |
| <b>• with 2 current paths in series at DC-1</b>                    |            |
| — 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      |
| <b>• with 3 current paths in series at DC-1</b>                    |            |
| — 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>• at 1 current path at DC-3 at DC-5</b>                         |            |
| — 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     |
| <b>• with 2 current paths in series at DC-3 at DC-5</b>            |            |
| — 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     |
| <b>• with 3 current paths in series at DC-3 at DC-5</b>            |            |
| — 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>   |            |
| <b>• at AC-3</b>   |            |
| — at 230 V rated value   | 37 kW      |
| — at 400 V rated value   | 55 kW      |
| — at 500 V rated value   | 75 kW      |
| — at 690 V rated value   | 110 kW     |
| — at 1000 V rated value  | 75 kW      |
| <b>• at AC-3e</b>  |            |
| — at 230 V rated value   | 37 kW      |
| — at 400 V rated value   | 55 kW      |
| — at 500 V rated value   | 75 kW      |
| — at 690 V rated value   | 110 kW     |
| — at 1000 V rated value  | 75 kW      |
| <b>operating power for approx. 200000 operating cycles at AC-4</b> |            |
| <b>• at 400 V rated value</b>                                      | 29 kW      |
| <b>• at 690 V rated value</b>                                      | 48 kW      |
| <b>operating apparent power at AC-6a</b>                           |            |
| <b>• up to 230 V for current peak value n=20 rated value</b>       | 40 000 kVA |
| <b>• up to 400 V for current peak value n=20 rated value</b>       | 80 000 VA  |
| <b>• up to 500 V for current peak value n=20 rated value</b>       | 100 000 VA |
| <b>• up to 690 V for current peak value n=20 rated value</b>       | 130 000 VA |
| <b>• up to 1000 V for current peak value n=20 rated value</b>      | 90 000 VA  |
| <b>operating apparent power at AC-6a</b>                           |            |
| <b>• up to 230 V for current peak value n=30 rated value</b>       | 30 000 VA  |

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|---|---|
| <ul style="list-style-type: none"> <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>   | 60 000 VA<br>80 000 VA<br>110 000 VA<br>90 000 VA   |
| <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> | 2 565 A; Use minimum cross-section acc. to AC-1 rated value<br>1 654 A; Use minimum cross-section acc. to AC-1 rated value<br>1 170 A; Use minimum cross-section acc. to AC-1 rated value<br>729 A; Use minimum cross-section acc. to AC-1 rated value<br>572 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>   | 1 000 1/h<br>1 000 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-3e maximum</li> <li>• at AC-4 maximum</li> </ul>   | 800 1/h<br>400 1/h<br>1 000 1/h<br>1 000 1/h<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>  | 96 ... 127 V<br>96 ... 127 V  |
| <b>control supply voltage at DC</b> <ul style="list-style-type: none"> <li>• rated value</li> </ul>   | 96 ... 127 V  |
| <b>type of PLC-control input according to IEC 60947-1</b>   | Type 2  |
| <b>consumed current at PLC-control input according to IEC 60947-1 maximum</b>   | 20 mA   |
| <b>voltage at PLC-control input rated value</b>   | 24 V  |
| <b>operating range factor of the voltage at PLC-control input</b>   | 0.8 ... 1.1   |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b> <ul style="list-style-type: none"> <li>• initial value</li> <li>• full-scale value</li> </ul>   | 0.8<br>1.1  |
| <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> <li>• at 60 Hz</li> </ul>  | 0.8 ... 1.1<br>0.8 ... 1.1  |
| <b>design of the surge suppressor</b>   | with varistor   |
| <b>apparent pick-up power of magnet coil at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>   | 280 VA<br>280 VA  |
| <b>inductive power factor with closing power of the coil</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>   | 0.8<br>0.8  |
| <b>apparent holding power of magnet coil at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>   | 4.4 VA<br>4.4 VA  |
| <b>inductive power factor with the holding power of the coil</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>   | 0.5<br>0.5  |
| <b>closing power of magnet coil at DC</b>   | 320 W   |
| <b>holding power of magnet coil at DC</b>   | 2.8 W   |
| <b>closing delay</b> <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>   | 35 ... 75 ms<br>35 ... 75 ms  |
| <b>opening delay</b>  |   |

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| <ul style="list-style-type: none"> <li>• at AC</li> </ul>  | 80 ... 90 ms   |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>  | 80 ... 90 ms   |
| <b>arcing time</b>   | 10 ... 15 ms   |
| <b>control version of the switch operating mechanism</b>   | PLC-IN or Standard A1 - A2 (adjustable)  |
| <b>Auxiliary circuit</b>   |  |
| number of NC contacts for auxiliary contacts<br>instantaneous contact  | 1  |
| number of NO contacts for auxiliary contacts<br>instantaneous contact  | 1  |
| operational current at AC-12 maximum   | 10 A   |
| <b>operational current at AC-15</b>  |  |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> </ul>   | 6 A  |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>   | 3 A  |
| <ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>   | 2 A  |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>   | 1 A  |
| <b>operational current at DC-12</b>  |  |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>  | 10 A   |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>  | 6 A  |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>  | 6 A  |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>   | 3 A  |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>   | 2 A  |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>   | 1 A  |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>   | 0.15 A   |
| <b>operational current at DC-13</b>  |  |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>  | 10 A   |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>  | 2 A  |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>  | 2 A  |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>   | 1 A  |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>   | 0.9 A  |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>   | 0.3 A  |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>   | 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>  |  |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> </ul>   | 124 A  |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>   | 125 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> </ul>  | 25 hp  |
| <ul style="list-style-type: none"> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> </ul> </li> </ul>   | 40 hp  |
| <ul style="list-style-type: none"> <li>— at 220/230 V rated value</li> </ul>   | 50 hp  |
| <ul style="list-style-type: none"> <li>— at 460/480 V rated value</li> </ul>   | 100 hp   |
| <ul style="list-style-type: none"> <li>— at 575/600 V rated value</li> </ul>   | 125 hp   |
| <b>contact rating of auxiliary contacts according to UL</b>  | A600 / Q600  |
| <b>Short-circuit protection</b>  |  |
| <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> </ul> | gG: 355 A (690 V, 100 kA)<br>gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)             |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>  | gG: 10 A (500 V, 1 kA)   |
| <b>Installation/ mounting/ dimensions</b>  |  |
| <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   |
| <ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>  | Yes  |
| <b>height</b>  | 172 mm   |
| <b>width</b>   | 140 mm   |
| <b>depth</b>   | 170 mm   |

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| <b>required spacing</b>  |  |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards 20 mm</li> <li>— upwards 10 mm</li> <li>— downwards 10 mm</li> <li>— at the side 0 mm</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 20 mm</li> <li>— upwards 10 mm</li> <li>— at the side 10 mm</li> <li>— downwards 10 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 20 mm</li> <li>— upwards 10 mm</li> <li>— downwards 10 mm</li> <li>— at the side 10 mm</li> </ul> </li> </ul> |  |
| <b>Connections/ Terminals</b>  |  |
| <b>type of electrical connection</b>   |  |
| <ul style="list-style-type: none"> <li>• for main current circuit Connection bar</li> <li>• for auxiliary and control circuit screw-type terminals</li> <li>• at contactor for auxiliary contacts Screw-type terminals</li> <li>• of magnet coil Screw-type terminals</li> </ul>   |  |
| <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 connectable conductor cross-sections</b>  |  |
| <ul style="list-style-type: none"> <li>• at AWG cables for main contacts 4 ... 250 kcmil</li> </ul>  |  |
| <b>connectable conductor cross-section for main contacts</b>   |  |
| <ul style="list-style-type: none"> <li>• stranded 25 ... 120 mm<sup>2</sup></li> </ul>   |  |
| <b>connectable conductor cross-section for auxiliary contacts</b>  |  |
| <ul style="list-style-type: none"> <li>• solid or stranded 0.5 ... 4 mm<sup>2</sup></li> <li>• finely stranded with core end processing 0.5 ... 2.5 mm<sup>2</sup></li> </ul>  |  |
| <b>type of connectable conductor cross-sections</b>  |  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), max. 2x (0.75 ... 4 mm<sup>2</sup>)</li> <li>— solid or stranded 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>)</li> <li>— finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</li> </ul> </li> <li>• at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14), 1x 12</li> </ul>         |  |
| <b>AWG number as coded connectable conductor cross section</b>   |  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts 18 ... 14</li> </ul>   |  |
| <b>Safety related data</b>   |  |
| <b>product function</b>  |  |
| <ul style="list-style-type: none"> <li>• mirror contact according to IEC 60947-4-1 Yes</li> <li>• positively driven operation according to IEC 60947-5-1 No</li> </ul>   |  |
| B10 value with high demand rate according to SN 31920  | 1 000 000  |
| <b>protection class IP on the front according to IEC 60529</b>   | IP00; IP20 with box terminal/cover                                       |
| <b>touch protection on the front according to IEC 60529</b>  | finger-safe, for vertical contact from the front with box terminal/cover |
| <b>suitability for use</b>   |  |
| <ul style="list-style-type: none"> <li>• safety-related switching OFF Yes</li> </ul>   |  |
| <b>Certificates/ approvals</b>   |  |
| <b>General Product Approval</b>  |  |



[Confirmation](#)



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|     |                                       |                           |                   |  |  |
|-----|---------------------------------------|---------------------------|-------------------|--|--|
| EMC | Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |  |  |
|-----|---------------------------------------|---------------------------|-------------------|--|--|



[Type Examination Certificate](#)



EG-Konf.



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

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| Marine / Shipping | other |  |  |  |  |
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LRS



PRS



RMRS



DNV GL

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| other | Railway |  |  |  |
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[Miscellaneous](#)

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[Miscellaneous](#)

[Special Test Certificate](#)

### 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=3RT1054-6PF35>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6PF35>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6PF35>

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

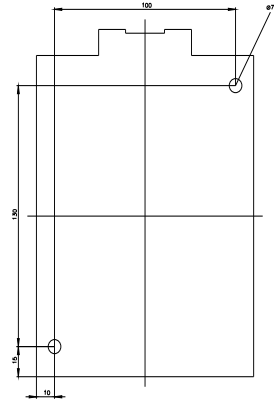
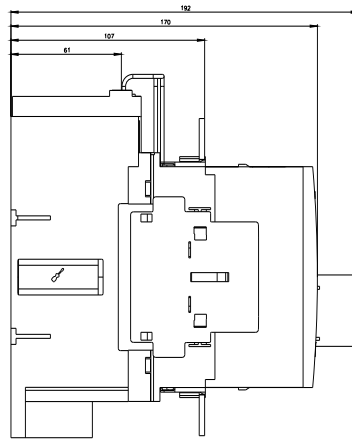
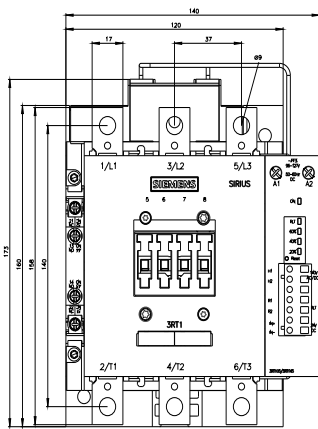
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1054-6PF35&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-6PF35&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6PF35/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-6PF35&objecttype=14&gridview=view1>



last modified:

3/24/2022 