



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25\* Uc, with integrated diode, auxiliary contacts: 1 NO, screw terminal, frame size: S00, suitable for PLC outputs, no auxiliary switch can be added

|  |                            |
|--|----------------------------|
| product brand name   | SIRIUS                     |
| product designation  | Power contactor            |
| product type designation   | 3RT2                       |
| <b>General technical data</b>  |                            |
| size of contactor  | S00                        |
| product extension  |                            |
| • function module for communication  | No                         |
| • auxiliary switch   | No                         |
| power loss [W] for rated value of the current  |                            |
| • at AC in hot operating state   | 0.9 W                      |
| • at AC in hot operating state per pole  | 0.3 W                      |
| • without load current share typical   | 2.8 W                      |
| type of calculation of power loss depending on pole  | quadratic                  |
| insulation voltage   |                            |
| • of main circuit with degree of pollution 3 rated value   | 690 V                      |
| • of auxiliary circuit with degree of pollution 3 rated value  | 690 V                      |
| surge voltage resistance   |                            |
| • of main circuit rated value  | 6 kV                       |
| • of auxiliary circuit rated value   | 6 kV                       |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V                      |
| shock resistance at rectangular impulse  |                            |
| • at DC  | 6,7g / 5 ms, 4,2g / 10 ms  |
| shock resistance with sine pulse   |                            |
| • at DC  | 10,5g / 5 ms, 6,6g / 10 ms |
| mechanical service life (operating cycles)   |                            |
| • of contactor typical   | 30 000 000                 |
| reference code according to IEC 81346-2  | Q                          |
| Substance Prohibitance (Date)  | 10/01/2009                 |
| SVHC substance name  | Lead - 7439-92-1           |
| Net Weight   | 282 g                      |
| <b>Ambient conditions</b>  |                            |
| installation altitude at height above sea level maximum  | 2 000 m                    |
| ambient temperature  |                            |
| • during operation   | -25 ... +60 °C             |
| • during storage   | -55 ... +80 °C             |
| relative humidity minimum  | 10 %                       |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum   | 95 %                       |

| <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>number of NC contacts for main contacts</b>                         | 0                 |
| <b>operating voltage</b>   |                   |
| • at AC-3 rated value maximum  | 690 V             |
| • at AC-3e rated value maximum   | 690 V             |
| <b>operational current</b>   |                   |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value            | 22 A              |
| • at AC-1  |                   |
| — up to 690 V at ambient temperature 40 °C rated value                 | 22 A              |
| — up to 690 V at ambient temperature 60 °C rated value                 | 20 A              |
| • at AC-3  |                   |
| — at 400 V rated value   | 9 A               |
| — at 500 V rated value   | 7.7 A             |
| — at 690 V rated value   | 6.7 A             |
| • at AC-3e   |                   |
| — at 400 V rated value   | 9 A               |
| — at 500 V rated value   | 7.7 A             |
| — at 690 V rated value   | 6.7 A             |
| • at AC-4 at 400 V rated value   | 8.5 A             |
| • at AC-5a up to 690 V rated value                                     | 19.4 A            |
| • at AC-5b up to 400 V rated value                                     | 7.4 A             |
| • at AC-6a   |                   |
| — up to 230 V for current peak value n=20 rated value                  | 5.3 A             |
| — up to 400 V for current peak value n=20 rated value                  | 5.3 A             |
| — up to 500 V for current peak value n=20 rated value                  | 5.3 A             |
| — up to 690 V for current peak value n=20 rated value                  | 5 A               |
| • at AC-6a   |                   |
| — up to 230 V for current peak value n=30 rated value                  | 3.5 A             |
| — up to 400 V for current peak value n=30 rated value                  | 3.5 A             |
| — up to 500 V for current peak value n=30 rated value                  | 3.6 A             |
| — up to 690 V for current peak value n=30 rated value                  | 3.3 A             |
| minimum cross-section in main circuit at maximum AC-1 rated value      | 4 mm <sup>2</sup> |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |                   |
| • at 400 V rated value   | 4.1 A             |
| • at 690 V rated value   | 3.3 A             |
| <b>operational current</b>   |                   |
| • <b>at 1 current path at DC-1</b>                                     |                   |
| — at 24 V rated value  | 20 A              |
| — at 60 V rated value  | 20 A              |
| — at 110 V rated value   | 2.1 A             |
| — at 220 V rated value   | 0.8 A             |
| — at 440 V rated value   | 0.6 A             |
| — at 600 V rated value   | 0.6 A             |
| • <b>with 2 current paths in series at DC-1</b>                        |                   |
| — at 24 V rated value  | 20 A              |
| — at 60 V rated value  | 20 A              |
| — at 110 V rated value   | 12 A              |
| — at 220 V rated value   | 1.6 A             |
| — at 440 V rated value   | 0.8 A             |
| — at 600 V rated value   | 0.7 A             |
| • <b>with 3 current paths in series at DC-1</b>                        |                   |
| — at 24 V rated value  | 20 A              |
| — at 60 V rated value  | 20 A              |

|   |   |
|---|---|
| — at 110 V rated value  | 20 A  |
| — at 220 V rated value  | 20 A  |
| — at 440 V rated value  | 1.3 A   |
| — at 600 V rated value  | 1 A   |
| • <b>at 1 current path at DC-3 at DC-5</b>                              |   |
| — at 24 V rated value   | 20 A  |
| — at 60 V rated value   | 0.5 A   |
| — at 110 V rated value  | 0.15 A  |
| • <b>with 2 current paths in series at DC-3 at DC-5</b>                 |   |
| — at 24 V rated value   | 20 A  |
| — at 60 V rated value   | 5 A   |
| — at 110 V rated value  | 0.35 A  |
| • <b>with 3 current paths in series at DC-3 at DC-5</b>                 |   |
| — at 24 V rated value   | 20 A  |
| — at 60 V rated value   | 20 A  |
| — at 110 V rated value  | 20 A  |
| — at 220 V rated value  | 1.5 A   |
| — at 440 V rated value  | 0.2 A   |
| — at 600 V rated value  | 0.2 A   |
| <b>operating power</b>  |   |
| • at AC-3   |   |
| — at 230 V rated value  | 2.2 kW  |
| — at 400 V rated value  | 4 kW  |
| — at 500 V rated value  | 4 kW  |
| — at 690 V rated value  | 5.5 kW  |
| • at AC-3e  |   |
| — at 230 V rated value  | 2.2 kW  |
| — at 400 V rated value  | 4 kW  |
| — at 500 V rated value  | 4 kW  |
| — at 690 V rated value  | 5.5 kW  |
| <b>operating power for approx. 200000 operating cycles at AC-4</b>      |   |
| • at 400 V rated value  | 2 kW  |
| • at 690 V rated value  | 2.5 kW  |
| <b>operating apparent power at AC-6a</b>                                |   |
| • up to 230 V for current peak value n=20 rated value                   | 2 kVA   |
| • up to 400 V for current peak value n=20 rated value                   | 3.6 kVA   |
| • up to 500 V for current peak value n=20 rated value                   | 4.6 kVA   |
| • up to 690 V for current peak value n=20 rated value                   | 5.9 kVA   |
| <b>operating apparent power at AC-6a</b>                                |   |
| • up to 230 V for current peak value n=30 rated value                   | 1.3 kVA   |
| • up to 400 V for current peak value n=30 rated value                   | 2.4 kVA   |
| • up to 500 V for current peak value n=30 rated value                   | 3.1 kVA   |
| • up to 690 V for current peak value n=30 rated value                   | 4 kVA   |
| <b>short-time withstand current in cold operating state up to 40 °C</b> |   |
| • limited to 1 s switching at zero current maximum                      | 155 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 5 s switching at zero current maximum                      | 111 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 10 s switching at zero current maximum                     | 86 A; Use minimum cross-section acc. to AC-1 rated value  |
| • limited to 30 s switching at zero current maximum                     | 66 A; Use minimum cross-section acc. to AC-1 rated value  |
| • limited to 60 s switching at zero current maximum                     | 55 A; Use minimum cross-section acc. to AC-1 rated value  |
| <b>no-load switching frequency</b>                                      |   |
| • at DC   | 10 000 1/h  |
| <b>operating frequency</b>  |   |
| • at AC-1 maximum   | 1 000 1/h   |
| • at AC-2 maximum   | 750 1/h   |
| • at AC-3 maximum   | 750 1/h   |
| • at AC-3e  |   |
| — maximum   | 750 1/h   |

|  |   |
|--|---|
| • at AC-4 maximum  | 250 1/h   |
| <b>Control circuit/ Control</b>  |   |
| type of voltage of the control supply voltage                                  | DC  |
| control supply voltage at DC rated value                                       | 24 V  |
| operating range factor control supply voltage rated value of magnet coil at DC |   |
| • initial value  | 0.7   |
| • full-scale value   | 1.25  |
| design of the surge suppressor   | diode   |
| closing power of magnet coil at DC   | 2.8 W   |
| holding power of magnet coil at DC   | 2.8 W   |
| closing delay  |   |
| • at DC  | 25 ... 130 ms                                   |
| opening delay  |   |
| • at DC  | 38 ... 65 ms                                    |
| arcing time  | 10 ... 15 ms                                    |
| control version of the switch operating mechanism                              | Standard A1 - A2                                |
| <b>Auxiliary circuit</b>   |   |
| number of NC contacts for auxiliary contacts instantaneous contact             | 0   |
| number of NO contacts for auxiliary contacts 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   |
| contact reliability of auxiliary contacts                                      | 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   | 7.6 A   |
| • at 600 V rated value   | 9 A   |
| <b>yielded mechanical performance [hp]</b>                                     |   |
| • for single-phase AC motor  |   |
| — at 110/120 V rated value   | 0.33 hp   |
| — at 230 V rated value   | 1 hp  |
| • for 3-phase AC motor   |   |
| — at 200/208 V rated value   | 2 hp  |
| — at 220/230 V rated value   | 3 hp  |
| — at 460/480 V rated value   | 5 hp  |
| — at 575/600 V rated value   | 7.5 hp  |
| contact rating of auxiliary contacts according to UL                           | A600 / Q600                                     |

|   |  |
|---|--|
| <b>Short-circuit protection</b>   |  |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V   | C characteristic: 10 A; 0.4 kA   |
| <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 coordination 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>   |  |
| <b>Installation/ mounting/ dimensions</b>   |  |
| <b>mounting position</b>  | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| fastening method side-by-side mounting  | Yes  |
| <b>fastening method</b>   | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715   |
| <b>height</b>   | 58 mm  |
| <b>width</b>  | 45 mm  |
| <b>depth</b>  | 73 mm  |
| <b>required spacing</b>   |  |
| <ul style="list-style-type: none"> <li>with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</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> |  |
| <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul>   | 10 mm  |
| <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul>   | 10 mm  |
| <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul>   | 6 mm   |
| <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul>   | 10 mm  |
| <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul>   | 10 mm  |
| <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul>   | 6 mm   |
| <b>Connections/ Terminals</b>   |  |
| <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> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>  |  |
| <ul style="list-style-type: none"> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>  | screw-type terminals   |
| <ul style="list-style-type: none"> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>  | screw-type terminals   |
| <ul style="list-style-type: none"> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>  | Screw-type terminals   |
| <ul style="list-style-type: none"> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>  | 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>for AWG cables for main contacts</li> </ul>   |  |
| <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>for AWG cables for main contacts</li> </ul>   | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>  |
| <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>for AWG cables for main contacts</li> </ul>   | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>  |
| <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>for AWG cables for main contacts</li> </ul>   | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )  |
| <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>for AWG cables for main contacts</li> </ul>   | 2x (20 ... 16), 2x (18 ... 14), 2x 12  |
| <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>   |  |
| <ul style="list-style-type: none"> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul>   | 0.5 ... 4 mm <sup>2</sup>  |
| <ul style="list-style-type: none"> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul>   | 0.5 ... 4 mm <sup>2</sup>  |
| <ul style="list-style-type: none"> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul>   | 0.5 ... 2.5 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>   |  |
| <ul style="list-style-type: none"> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>   | 0.5 ... 4 mm <sup>2</sup>  |
| <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>  |
| <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 or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> </ul>  |  |
| <ul style="list-style-type: none"> <li>for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> </ul>  | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>  |
| <ul style="list-style-type: none"> <li>for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> </ul>  | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )  |
| <ul style="list-style-type: none"> <li>for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> </ul>  | 2x (20 ... 16), 2x (18 ... 14), 2x 12  |
| <b>AWG number as coded connectable conductor cross-section for main contacts</b>  | 20 ... 12  |
| <b>AWG number as coded connectable conductor cross-section for auxiliary contacts</b>   | 20 ... 12  |

| Safety related data   |   |   |   |   |   |
|---|---|---|---|---|---|
| <b>product function</b>   |   |   |   |   |   |
| • mirror contact according to IEC 60947-4-1   | No  |   |   |   |   |
| • positively driven operation according to IEC 60947-5-1  | No  |   |   |   |   |
| • suitable for safety function  | Yes   |   |   |   |   |
| <b>suitability for use safety-related switching OFF</b>   | Yes   |   |   |   |   |
| <b>service life maximum</b>   | 20 a  |   |   |   |   |
| <b>test wear-related service life necessary</b>   | Yes   |   |   |   |   |
| <b>proportion of dangerous failures</b>   |   |   |   |   |   |
| • with low demand rate according to SN 31920  | 40 %  |   |   |   |   |
| • with high demand rate according to SN 31920   | 73 %  |   |   |   |   |
| <b>B10 value with high demand rate according to SN 31920</b>  | 1 000 000   |   |   |   |   |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b>  | 100 FIT   |   |   |   |   |
| <b>ISO 13849</b>  |   |   |   |   |   |
| <b>device type according to ISO 13849-1</b>   | 3   |   |   |   |   |
| <b>overdimensioning according to ISO 13849-2 necessary</b>  | Yes   |   |   |   |   |
| <b>IEC 61508</b>  |   |   |   |   |   |
| <b>safety device type according to IEC 61508-2</b>  | Type A  |   |   |   |   |
| <b>Electrical Safety</b>  |   |   |   |   |   |
| <b>protection class IP on the front according to IEC 60529</b>  | IP20  |   |   |   |   |
| <b>touch protection on the front according to IEC 60529</b>   | finger-safe, for vertical contact from the front                                      |   |   |   |   |
| Approvals Certificates  |   |   |   |   |   |
| Environmental Product Declaration   |   |   |   |   |   |
| • global warming potential [CO2 eq] / during manufacturing  | 1.42 kg   |   |   |   |   |
| • global warming potential [CO2 eq] / during operation  | 152 kg  |   |   |   |   |
| • global warming potential [CO2 eq] / after end of life   | -0.305 kg   |   |   |   |   |
| • global warming potential [CO2 eq] / total   | 153 kg  |   |   |   |   |
| <b>Environment</b>  | <b>General Product Approval</b>   |   |   |   |   |
|    | <a href="#">Environmental Confirmations</a>   |   |   |   |   |
|    |    |   |   |   |   |
|    |  |   |   |   |   |
| <b>General Product Approval</b>   | <b>EMV</b>  | <b>Test Certificates</b>  |   |   |   |
|    |    |  |  | <a href="#">Type Test Certificates/Test Report</a>                                    | <a href="#">Special Test Certificate</a>  |
| <b>Maritime application</b>   |   |   |   |   |   |
|    |    |  |  |  |  |
| <b>Maritime application</b>   | <b>other</b>  |   | <b>Railway</b>  | <b>Dangerous goods</b>  |   |
|    | <a href="#">Miscellaneous</a>   |  | <a href="#">Confirmation</a>  | <a href="#">Special Test Certificate</a>  | <a href="#">Transport Information</a>   |
| Further information   |   |   |   |   |   |
| Information on the packaging<br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a> |   |   |   |   |   |
| Information for data generation and storage   |   |   |   |   |   |

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RT2016-1JB41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1JB41>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2016-1JB41&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-1JB41&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-1JB41>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



