



capacitor contactor, AC-6b 100 kVAr, / 400 V, 3-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3

|  |                            |
|--|----------------------------|
| <b>product brand name</b>  | SIRIUS                     |
| <b>product designation</b>   | capacitor contactors       |
| <b>product type designation</b>  | 3RT26                      |
| <b>General technical data</b>  |                            |
| <b>size of contactor</b>   | S3                         |
| product extension auxiliary switch   | Yes                        |
| <b>power loss [W] for rated value of the current</b>   |                            |
| • at AC in hot operating state per pole  | 6.5 W                      |
| • without load current share typical   | 7.3 W                      |
| <b>type of calculation of power loss depending on pole</b>   | quadratic                  |
| <b>insulation voltage</b>  |                            |
| • of main circuit with degree of pollution 3 rated value   | 1 000 V                    |
| • of auxiliary circuit with degree of pollution 3 rated value  | 690 V                      |
| <b>surge voltage resistance</b>  |                            |
| • of main circuit rated value  | 8 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                      |
| <b>shock resistance at rectangular impulse</b>   |                            |
| • at AC  | 10.3g / 5 ms, 6. g / 10 ms |
| <b>shock resistance with sine pulse</b>  |                            |
| • at AC  | 16.3g / 5 ms, 10.g / 10 ms |
| <b>mechanical service life (operating cycles)</b>  |                            |
| • of the contactor with added auxiliary switch block typical   | 3 000 000                  |
| <b>electrical endurance (operating cycles)</b>   | 120 000                    |
| <b>reference code according to IEC 81346-2</b>   | Q                          |
| <b>Substance Prohibitance (Date)</b>   | 06/26/2017                 |
| <b>Weight</b>  | 1.793 kg                   |
| <b>Ambient conditions</b>  |                            |
| installation altitude at height above sea level maximum  | 2 000 m                    |
| <b>ambient temperature</b>   |                            |
| • during operation   | -25 ... +60 °C             |
| • during storage   | -55 ... +80 °C             |
| <b>relative humidity minimum</b>   | 10 %                       |
| <b>relative humidity at 55 °C according to IEC 60068-2-30 maximum</b>  | 95 %                       |
| <b>Environmental footprint</b>   |                            |
| Environmental Product Declaration(EPD)   | Yes                        |
| global warming potential [CO2 eq] total  | 106 kg                     |






|   |                  |
|---|------------------|
| global warming potential [CO2 eq] during manufacturing                                | 2.47 kg          |
| global warming potential [CO2 eq] during operation                                    | 104 kg           |
| global warming potential [CO2 eq] after end of life                                   | -0.226 kg        |
| <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                |
| operational current at AC-6b at 690 V at ambient temperature 60 °C rated value        | 144 A            |
| <b>operating reactive power at AC-6b</b>  |                  |
| • at 230 V at 50/60 Hz at ambient temperature 60 °C rated value                       | 19 ... 57 kvar   |
| • at 400 V at 50/60 Hz at ambient temperature 60 °C rated value                       | 33 ... 100 kvar  |
| • at 500 V at 50/60 Hz at ambient temperature 60 °C rated value                       | 41 ... 125 kvar  |
| • at 690 V at 50/60 Hz at ambient temperature 60 °C rated value                       | 57 ... 172 kvar  |
| <b>no-load switching frequency</b>  |                  |
| • at AC   | 500 1/h          |
| <b>operating frequency at AC-6b</b>   |                  |
| • at 230 V maximum  | 150 1/h          |
| • at 240 V maximum  | 150 1/h          |
| • at 400 V maximum  | 80 1/h           |
| • at 480 V maximum  | 53 1/h           |
| • at 500 V maximum  | 53 1/h           |
| • at 600 V maximum  | 32 1/h           |
| • at 690 V maximum  | 30 1/h           |
| <b>Control circuit/ Control</b>   |                  |
| <b>type of voltage</b>  | AC               |
| <b>type of voltage of the control supply voltage</b>                                  | AC               |
| <b>control supply voltage at AC</b>   |                  |
| • at 50 Hz rated value  | 24 V             |
| <b>control supply voltage frequency</b>   |                  |
| • 1 rated value   | 50 Hz            |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> |                  |
| • at 50 Hz  | 0.8 ... 1.1      |
| <b>apparent pick-up power of magnet coil at AC</b>                                    | 296 VA           |
| <b>inductive power factor with closing power of the coil</b>                          | 0.61             |
| <b>apparent holding power of magnet coil at AC</b>                                    | 19 VA            |
| <b>inductive power factor with the holding power of the coil</b>                      | 0.38             |
| <b>closing delay</b>  |                  |
| • at AC   | 13 ... 50 ms     |
| <b>opening delay</b>  |                  |
| • at AC   | 10 ... 21 ms     |
| <b>arcing time</b>  | 10 ... 20 ms     |
| <b>control version of the switch operating mechanism</b>                              | Standard A1 - A2 |
| <b>Auxiliary circuit</b>  |                  |
| <b>number of NC contacts for auxiliary contacts</b>                                   | 1                |
| • attachable  | 1                |
| • instantaneous contact   | 1                |
| <b>number of NO contacts for auxiliary contacts</b>                                   | 1                |
| • attachable  | 1                |
| • instantaneous contact   | 1                |
| <b>operational current of auxiliary contacts at AC-12 maximum</b>                     | 10 A             |
| <b>operational current of auxiliary contacts at AC-15</b>                             |                  |
| • at 230 V  | 6 A              |
| • at 400 V  | 3 A              |
| • at 690 V  | 0 A              |

|   |  |
|---|--|
| <b>operational current of auxiliary contacts at DC-13</b>   |  |
| <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 60 V</li> <li>• at 110 V</li> <li>• at 125 V</li> <li>• at 220 V</li> </ul>  | 6 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A  |
| <b>contact reliability of auxiliary contacts</b>  | 0.00000001   |
| <b>UL/CSA ratings</b>   |  |
| <b>contact rating of auxiliary contacts according to UL</b>   | 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 with type of coordination 1 required</li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>  | gG: 250 A (690 V, 50 kA)<br>gG: 10 A (690 V, 1 kA)   |
| <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   |
| <b>fastening method</b>   | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022   |
| <b>height</b>   | 140 mm   |
| <b>width</b>  | 80 mm  |
| <b>depth</b>  | 152 mm   |
| <b>required spacing</b>   |  |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting at the side</li> <li>• for grounded parts at the side</li> </ul>  | 10 mm<br>10 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>  | screw-type terminals<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals   |
| type of connectable conductor cross-sections for main contacts  |  |
| <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>  | 2x (10 ... 16 mm <sup>2</sup> )<br>2x (10 ... 70 mm <sup>2</sup> ), 1x (10 ... 70 mm <sup>2</sup> )<br>2x (10 ... 70 mm <sup>2</sup> ), 1x (10 ... 70 mm <sup>2</sup> )<br>2x (10 ... 50 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</li> <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><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 2x 12 |
| <b>type of minimum connectable cross-sections for main contacts at AC-6b</b>  |  |
| <ul style="list-style-type: none"> <li>• at 40 °C</li> <li>• at 60 °C</li> </ul>  | 1x 70 mm <sup>2</sup><br>2x 50 mm <sup>2</sup>   |
| <b>AWG number as coded connectable conductor cross section for main contacts</b>  | 8  |
| <b>Safety related data</b>  |  |
| <b>product function</b>   |  |
| <ul style="list-style-type: none"> <li>• mirror contact according to IEC 60947-4-1</li> <li>• positively driven operation according to IEC 60947-5-1</li> </ul>   | No<br>No   |
| Electrical Safety   |  |
| <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   |
| <b>Approvals Certificates</b>   |  |
| General Product Approval  |  |



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|---|--|---|---|---|---|
| EMV   | Test Certificates                                  | Maritime application  | other   |   |   |
|  | <a href="#">Type Test Certificates/Test Report</a> |  |  |  |  |

|                              |                                       |   |
|------------------------------|---------------------------------------|---|
| other                        | Dangerous goods                       | Environment   |
| <a href="#">Confirmation</a> | <a href="#">Transport Information</a> |  <a href="#">Environmental Confirmations</a> |

### Further information

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**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=3RT2646-1AB03>

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2646-1AB03>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2646-1AB03>

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

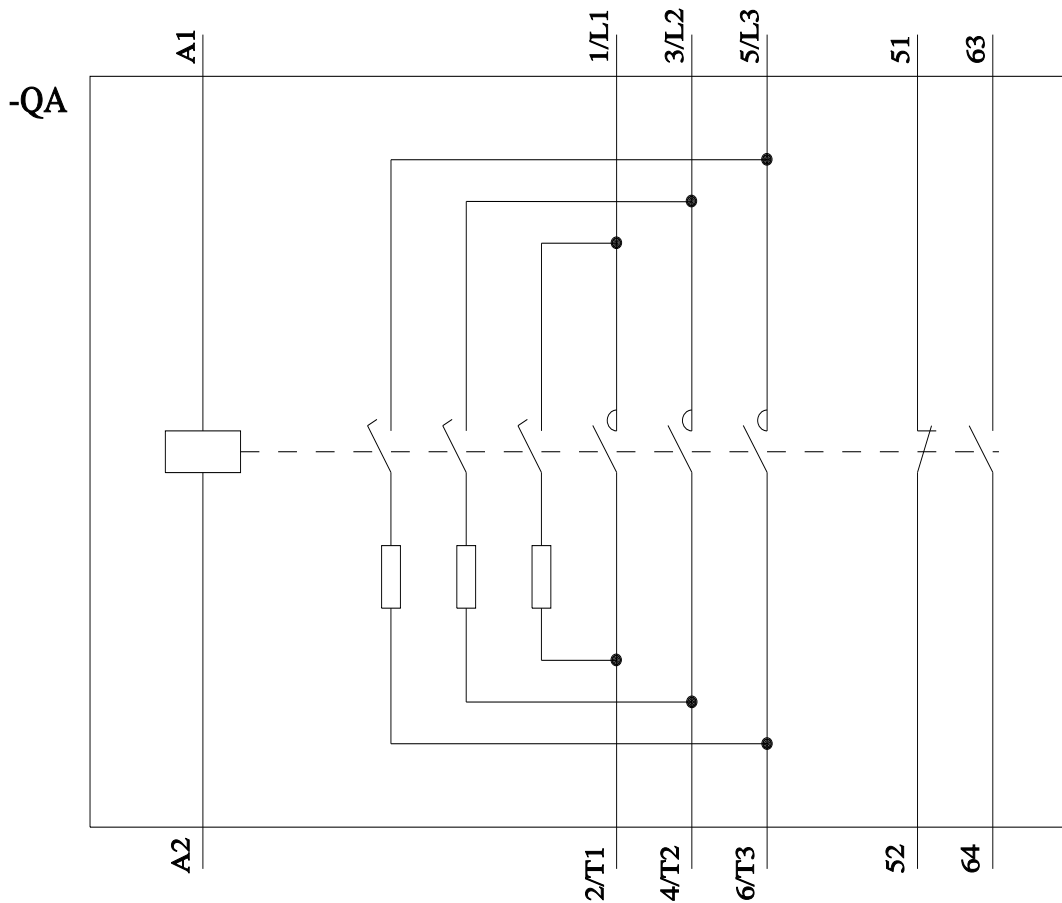
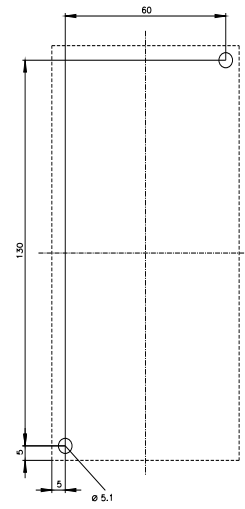
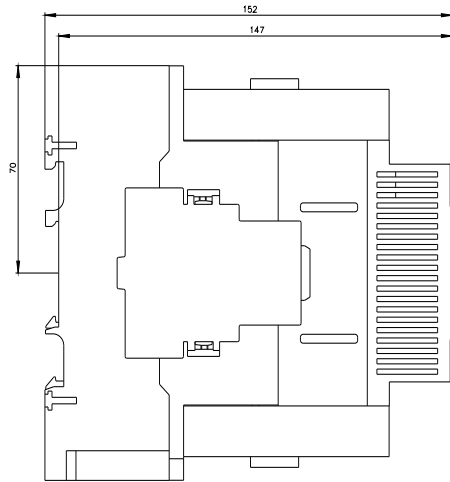
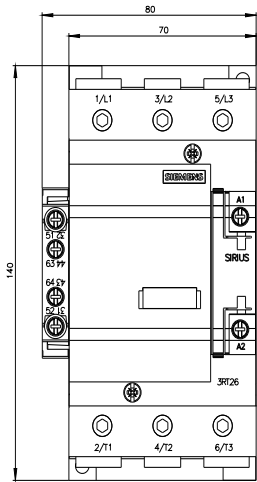
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**Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2646-1AB03/char>

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

<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2646-1AB03&objecttype=14&gridview=view1>



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