

capacitor contactor, AC-6b 25 kVAr, / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 2 NC, screw terminal, size: S0

|                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| product brand name                                                                                                                                                                                                                                                                                                                                                     | SIRIUS                                                             |
| product designation                                                                                                                                                                                                                                                                                                                                                    | capacitor contactors                                               |
| product type designation                                                                                                                                                                                                                                                                                                                                               | 3RT26                                                              |
| <b>General technical data</b>                                                                                                                                                                                                                                                                                                                                          |                                                                    |
| size of contactor                                                                                                                                                                                                                                                                                                                                                      | S0                                                                 |
| product extension auxiliary switch                                                                                                                                                                                                                                                                                                                                     | No                                                                 |
| power loss [W] for rated value of the current <ul style="list-style-type: none"> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> </ul>                                                                                                                                                                                      | 2.7 W<br>5.9 W                                                     |
| type of calculation of power loss current-dependent                                                                                                                                                                                                                                                                                                                    | quadratic                                                          |
| insulation voltage <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>                                                                                                                                                                       | 690 V<br>690 V                                                     |
| surge voltage resistance <ul style="list-style-type: none"> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> </ul>                                                                                                                                                                                                                       | 6 kV<br>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 <ul style="list-style-type: none"> <li>at DC</li> </ul>                                                                                                                                                                                                                                                                        | 10g / 5 ms, 7,5g / 10 ms                                           |
| shock resistance with sine pulse <ul style="list-style-type: none"> <li>at DC</li> </ul>                                                                                                                                                                                                                                                                               | 15 g / 5 ms, 10 g / 10 ms                                          |
| mechanical service life (operating cycles) <ul style="list-style-type: none"> <li>of the contactor with added auxiliary switch block typical</li> </ul>                                                                                                                                                                                                                | 3 000 000                                                          |
| electrical endurance (operating cycles)                                                                                                                                                                                                                                                                                                                                | 200 000                                                            |
| reference code according to IEC 81346-2                                                                                                                                                                                                                                                                                                                                | Q                                                                  |
| Substance Prohibitance (day/month/year)                                                                                                                                                                                                                                                                                                                                | 05/01/2014                                                         |
| Net Weight                                                                                                                                                                                                                                                                                                                                                             | 0.77 kg                                                            |
| <b>Ambient conditions</b>                                                                                                                                                                                                                                                                                                                                              |                                                                    |
| installation altitude at height above sea level maximum                                                                                                                                                                                                                                                                                                                | 2 000 m                                                            |
| ambient temperature <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>                                                                                                                                                                                                                                                         | -25 ... +60 °C<br>-55 ... +80 °C                                   |
| 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                                                                  |
| number of NC contacts for main contacts                                                                                                                                                                                                                                                                                                                                | 0                                                                  |
| operational current at AC-6b at 690 V at ambient temperature 60 °C rated value                                                                                                                                                                                                                                                                                         | 36 A                                                               |
| operating reactive power at AC-6b <ul style="list-style-type: none"> <li>at 230 V at 50/60 Hz at ambient temperature 60 °C rated value</li> <li>at 400 V at 50/60 Hz at ambient temperature 60 °C rated value</li> <li>at 500 V at 50/60 Hz at ambient temperature 60 °C rated value</li> <li>at 690 V at 50/60 Hz at ambient temperature 60 °C rated value</li> </ul> | 5 ... 14 kvar<br>8 ... 25 kvar<br>10 ... 31 kvar<br>14 ... 43 kvar |

|                                                                                                           |                                                                                   |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>no-load switching frequency</b>                                                                        |                                                                                   |
| • at DC                                                                                                   | 500 1/h                                                                           |
| <b>operating frequency at AC-6b</b>                                                                       |                                                                                   |
| • at 230 V maximum                                                                                        | 100 1/h                                                                           |
| • at 240 V maximum                                                                                        | 100 1/h                                                                           |
| • at 400 V maximum                                                                                        | 100 1/h                                                                           |
| • at 480 V maximum                                                                                        | 100 1/h                                                                           |
| • at 500 V maximum                                                                                        | 100 1/h                                                                           |
| • at 600 V maximum                                                                                        | 100 1/h                                                                           |
| • at 690 V maximum                                                                                        | 72 1/h                                                                            |
| <b>Control circuit/ Control</b>                                                                           |                                                                                   |
| <b>type of voltage</b>                                                                                    | DC                                                                                |
| <b>type of voltage of the control supply voltage</b>                                                      | DC                                                                                |
| <b>control supply voltage at DC rated value</b>                                                           | 24 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>closing power of magnet coil at DC</b>                                                                 | 5.9 W                                                                             |
| <b>holding power of magnet coil at DC</b>                                                                 | 5.9 W                                                                             |
| <b>closing delay</b>                                                                                      |                                                                                   |
| • at DC                                                                                                   | 50 ... 170 ms                                                                     |
| <b>opening delay</b>                                                                                      |                                                                                   |
| • at DC                                                                                                   | 15 ... 18 ms                                                                      |
| <b>arcing time</b>                                                                                        | 10 ms                                                                             |
| <b>control version of the switch operating mechanism</b>                                                  | Standard A1 - A2                                                                  |
| <b>residual current of the electronics for control with signal &lt;0&gt;</b>                              |                                                                                   |
| • at DC at 24 V maximum permissible                                                                       | 16 mA                                                                             |
| <b>Auxiliary circuit</b>                                                                                  |                                                                                   |
| <b>number of NC contacts for auxiliary contacts</b>                                                       | 2                                                                                 |
| • attachable                                                                                              | 0                                                                                 |
| • instantaneous contact                                                                                   | 2                                                                                 |
| <b>number of NO contacts for auxiliary contacts</b>                                                       | 1                                                                                 |
| • attachable                                                                                              | 0                                                                                 |
| • 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                                                                                                | 1 A                                                                               |
| <b>operational current of auxiliary contacts at DC-13</b>                                                 |                                                                                   |
| • at 24 V                                                                                                 | 6 A                                                                               |
| • at 60 V                                                                                                 | 2 A                                                                               |
| • at 110 V                                                                                                | 1 A                                                                               |
| • at 125 V                                                                                                | 0.9 A                                                                             |
| • at 220 V                                                                                                | 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>UL File Number (CCN)</b>                                                                               | E31519 (NLDX, NLDX7)                                                              |
| <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>                                                                            |                                                                                   |
| • for short-circuit protection of the main circuit with type of coordination 1 required                   | gG: 80 A (690 V, 50 kA)                                                           |
| • for short-circuit protection of the auxiliary switch required                                           | 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>                            | 135 mm                                                                   |
| <b>width</b>                             | 45 mm                                                                    |
| <b>depth</b>                             | 165 mm                                                                   |
| <b>required spacing</b>                  |                                                                          |
| • with side-by-side mounting at the side | 10 mm                                                                    |
| • for grounded parts at the side         | 10 mm                                                                    |

#### Connections/ Terminals

|                                                                                  |                                                       |
|----------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>type of electrical connection</b>                                             |                                                       |
| • for main current circuit                                                       | screw-type terminals                                  |
| • for auxiliary and control circuit                                              | screw-type terminals                                  |
| • at contactor for auxiliary contacts                                            | Screw-type terminals                                  |
| • of magnet coil                                                                 | screw terminal                                        |
| <b>type of connectable conductor cross-sections for main contacts</b>            |                                                       |
| • solid                                                                          | 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)               |
| • stranded                                                                       | 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)               |
| • solid or stranded                                                              | 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)               |
| • finely stranded with core end processing                                       | 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²     |
| <b>type of connectable conductor cross-sections</b>                              |                                                       |
| • for auxiliary contacts                                                         |                                                       |
| — solid                                                                          | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² |
| — solid or stranded                                                              | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² |
| — finely stranded with core end processing                                       | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)           |
| • for AWG cables for auxiliary contacts                                          | 2x (20 ... 16), 2x (18 ... 14), 2x 12                 |
| <b>type of minimum connectable cross-sections for main contacts at AC-6b</b>     |                                                       |
| • at 40 °C                                                                       | 1x 10 mm²                                             |
| • at 60 °C                                                                       | 2x 10 mm²                                             |
| <b>AWG number as coded connectable conductor cross section for main contacts</b> | 16 ... 8                                              |

#### 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 |

#### 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 |

#### Approvals Certificates

|                                                            |           |
|------------------------------------------------------------|-----------|
| <b>Environmental Product Declaration</b>                   |           |
| • 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 |
| • global warming potential [CO2 eq] / total                | 106 kg    |

#### Environment

#### General Product Approval

[Environmental Con-  
firmations](#)



#### General Product Ap- proval

#### EMV

#### Test Certificates

#### Maritime application



[Type Test Certific-  
ates/Test Report](#)



#### other

#### Dangerous goods

#### 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=3RT2627-1BB45>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2627-1BB45>

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

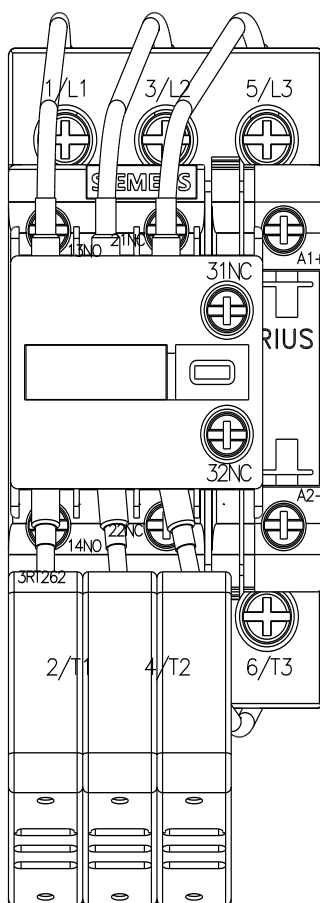
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2627-1BB45&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2627-1BB45&lang=en)

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2627-1BB45>

**Characteristic curves**

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



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