



capacitor contactor, AC-6b 50 kVAr, / 400 V, 3-pole, 110 V AC, 50 Hz, auxiliary contacts: 2 NC, screw terminal, size: S2

|                                                                                                                                                                                                  |                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| product brand name                                                                                                                                                                               | SIRIUS                           |
| product designation                                                                                                                                                                              | capacitor contactors             |
| product type designation                                                                                                                                                                         | 3RT26                            |
| <b>General technical data</b>                                                                                                                                                                    |                                  |
| size of contactor                                                                                                                                                                                | S2                               |
| product extension auxiliary switch                                                                                                                                                               | Yes                              |
| 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>                | 4 W<br>6 W                       |
| type of calculation of power loss depending on pole                                                                                                                                              | 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 AC</li> </ul>                                                                                                  | 6.8g / 5 ms, 4g / 10 ms          |
| shock resistance with sine pulse <ul style="list-style-type: none"> <li>at AC</li> </ul>                                                                                                         | 10.6g / 5 ms, 6.2g / 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 (Date)                                                                                                                                                                    | 05/01/2014                       |
| Weight                                                                                                                                                                                           | 1.063 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>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>                                                            |                  |
| 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 | 72.2 A           |
| operating reactive power at AC-6b                                              |                  |
| • at 230 V at 50/60 Hz at ambient temperature 60 °C rated value                | 10 ... 29 kvar   |
| • at 400 V at 50/60 Hz at ambient temperature 60 °C rated value                | 17 ... 50 kvar   |
| • at 500 V at 50/60 Hz at ambient temperature 60 °C rated value                | 21 ... 63 kvar   |
| • at 690 V at 50/60 Hz at ambient temperature 60 °C rated value                | 29 ... 86 kvar   |
| no-load switching frequency                                                    |                  |
| • at AC                                                                        | 500 1/h          |
| operating frequency at AC-6b                                                   |                  |
| • 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                                                             | 60 1/h           |
| • at 500 V maximum                                                             | 55 1/h           |
| • at 600 V maximum                                                             | 40 1/h           |
| • at 690 V maximum                                                             | 30 1/h           |
| <b>Control circuit/ Control</b>                                                |                  |
| type of voltage                                                                | AC               |
| type of voltage of the control supply voltage                                  | AC               |
| control supply voltage at AC                                                   |                  |
| • at 50 Hz rated value                                                         | 110 V            |
| control supply voltage frequency                                               |                  |
| • 1 rated value                                                                | 50 Hz            |
| operating range factor control supply voltage rated value of magnet coil at AC |                  |
| • at 50 Hz                                                                     | 0.8 ... 1.1      |
| apparent pick-up power of magnet coil at AC                                    | 190 VA           |
| inductive power factor with closing power of the coil                          | 0.72             |
| apparent holding power of magnet coil at AC                                    | 16 VA            |
| inductive power factor with the holding power of the coil                      | 0.37             |
| closing delay                                                                  |                  |
| • at AC                                                                        | 10 ... 80 ms     |
| opening delay                                                                  |                  |
| • at AC                                                                        | 10 ... 18 ms     |
| arcing time                                                                    | 10 ... 20 ms     |
| control version of the switch operating mechanism                              | Standard A1 - A2 |
| <b>Auxiliary circuit</b>                                                       |                  |
| number of NC contacts for auxiliary contacts                                   | 2                |
| • attachable                                                                   | 1                |
| • instantaneous contact                                                        | 2                |
| number of NO contacts for auxiliary contacts                                   | 0                |
| • attachable                                                                   | 1                |
| • instantaneous contact                                                        | 0                |
| operational current of auxiliary contacts at AC-12 maximum                     | 10 A             |
| operational current of auxiliary contacts at AC-15                             |                  |
| • at 230 V                                                                     | 6 A              |
| • at 400 V                                                                     | 3 A              |
| • at 690 V                                                                     | 0 A              |
| operational current of auxiliary contacts at DC-13                             |                  |
| • at 24 V                                                                      | 6 A              |
| • at 60 V                                                                      | 2 A              |
| • at 110 V                                                                     | 1 A              |

|                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 125 V</li> <li>• at 220 V</li> </ul>                                                                                                                                                                                                                                            | 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: 160 A (690 V, 50 kA)<br><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>                                                                                                                                                                                                                                                                                                               | 114 mm                                                                                                                                                                                                 |
| <b>width</b>                                                                                                                                                                                                                                                                                                                | 65 mm                                                                                                                                                                                                  |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                | 130 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 (1 ... 16 mm²)<br>2x (10 ... 35 mm²), 1x (10 ... 50 mm²)<br>2x (1 ... 35 mm²), 1x (1 ... 50 mm²)<br>2x (1 ... 25 mm²), 1x (1 ... 35 mm²)                                                            |
| <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 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)<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 35 mm²<br>1x 50 mm²                                                                                                                                                                                 |
| <b>AWG number as coded connectable conductor cross section for main contacts</b>                                                                                                                                                                                                                                            | 18 ... 0                                                                                                                                                                                               |
| <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                                                                                                                                                                                               |
| <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                                                                                                                                                       |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                        |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                        |



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|     |                   |                      |       |
|-----|-------------------|----------------------|-------|
| EMV | Test Certificates | Maritime application | other |
|-----|-------------------|----------------------|-------|



[Type Test Certificates/Test Report](#)



[Confirmation](#)



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## 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=3RT2636-1AF05>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2636-1AF05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2636-1AF05>

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

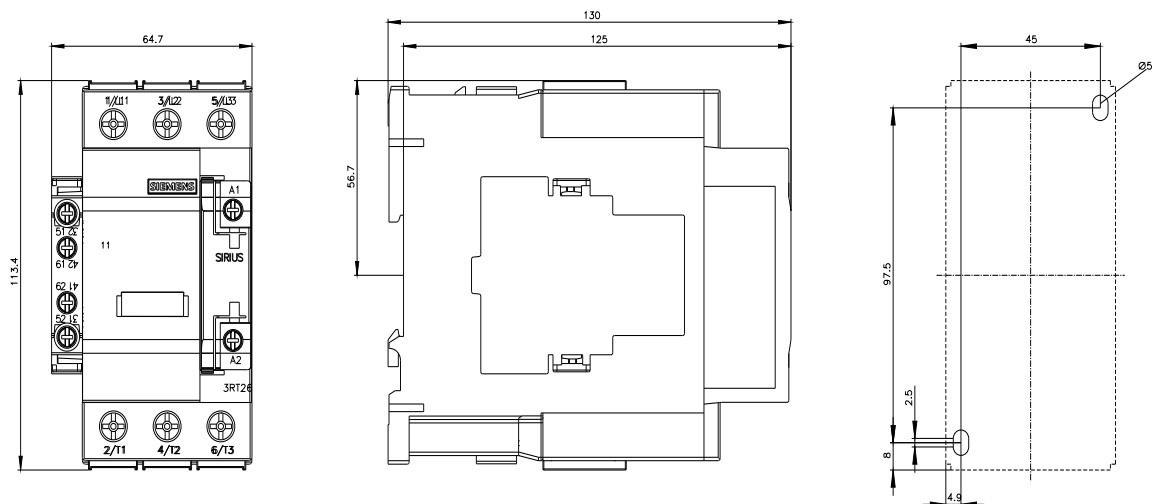
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2636-1AF05&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2636-1AF05&lang=en)

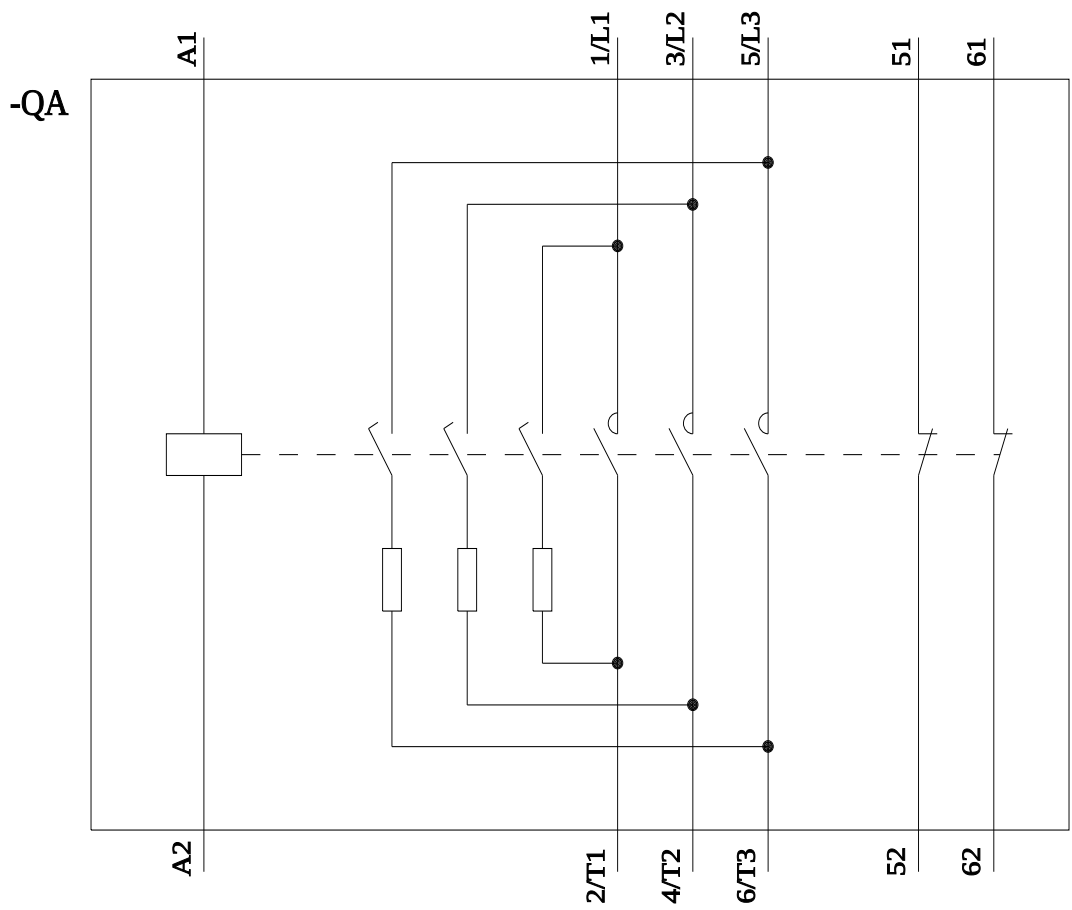
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2636-1AF05/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2636-1AF05&objecttype=14&gridview=view1>





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