SIEMENS

## Data sheet 3RT2637-1AP03

capacitor contactor, AC-6b 75 kVAr, / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal

| | |
|---|---|
| **product brand name** | SIRIUS |
| **product designation** | capacitor contactors |
| **product type designation** | 3RT26 |
| **General technical data** | |
| **size of contactor** | S2 |
| product extension auxiliary switch | Yes |
| **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 safe isolation between coil and main contacts according to EN 60947-1 | 400 V |
| **shock resistance at rectangular impulse** | |
| ● at AC | 6.8g / 5 ms, 4g / 10 ms |
| **shock resistance with sine pulse** | |
| ● at AC | 10.6g / 5 ms, 6.2g / 10 ms |
| **mechanical service life (operating cycles)** | |
| ● of the contactor with added auxiliary switch block typical | 3 000 000 |
| **electrical endurance (operating cycles)** | 150 000 |
| **reference code according to IEC 81346-2** | Q |
| **Substance Prohibitance (Date)** | 05/01/2014 |
| **Ambient conditions** | |
| 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 % |
| **Main circuit** | |
| **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 | 108 A |
| **operating reactive power at AC-6b** | |
| ● at 230 V at 50/60 Hz at ambient temperature 60 °C rated value | 14 ... 43 kvar |
| ● at 400 V at 50/60 Hz at ambient temperature 60 °C | 25 ... 75 kvar |

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|---|---|
| rated value | |
| ● at 500 V at 50/60 Hz at ambient temperature 60 °C rated value | 31 ... 94 kvar |
| ● at 690 V at 50/60 Hz at ambient temperature 60 °C rated value | 43 ... 129 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 | 50 1/h |
| ● at 500 V maximum | 45 1/h |
| ● at 600 V maximum | 32 1/h |
| ● at 690 V maximum | 25 1/h |
| **Control circuit/ Control** | |
| **type of voltage** | AC |
| **type of voltage of the control supply voltage** | AC |
| **control supply voltage at AC** | |
| ● at 50 Hz rated value | 230 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 |
| **Auxiliary circuit** | |
| **number of NC contacts for auxiliary contacts** | 1 |
| ● attachable | 1 |
| ● instantaneous contact | 1 |
| **number of NO contacts for auxiliary contacts** | 1 |
| ● attachable | 1 |
| ● instantaneous contact | 1 |
| **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 |
| ● at 125 V | 0.9 A |
| ● at 220 V | 0.3 A |
| **contact reliability of auxiliary contacts** | 0.00000001 |
| **UL/CSA ratings** | |
| **contact rating of auxiliary contacts according to UL** | A600 / Q600 |
| **Short-circuit protection** | |
| **design of the fuse link** | |
| ● for short-circuit protection of the main circuit with type of coordination 1 required | gG: 200 A (690 V, 50 kA) |
| ● for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |

| Installation/ mounting/ dimensions | |
|---|---|
| **mounting position** | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| **fastening method** | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 |
| **height** | 114 mm |
| **width** | 65 mm |
| **depth** | 130 mm |
| **required spacing** | |
| ● with side-by-side mounting at the side | 10 mm |
| ● for grounded parts at the side | 10 mm |

| Connections/ Terminals | |
|---|---|
| **type of electrical connection** | |
| ● 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-type terminals |
| type of connectable conductor cross-sections for main contacts | |
| ● solid | 2x (1 ... 16 mm²) |
| ● stranded | 2x (10 ... 35 mm²), 1x (10 ... 50 mm²) |
| ● solid or stranded | 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) |
| ● finely stranded with core end processing | 2x (1 ... 25 mm²), 1x (1 ... 35 mm²) |
| **type of connectable conductor cross-sections** | |
| ● 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) |
| ● at AWG cables for auxiliary contacts | 2x (20 ... 16), 2x (18 ... 14), 2x 12 |
| **type of minimum connectable cross-section for main contacts at AC-6b** | |
| ● at 40 °C | 1x 50 mm² |
| ● at 60 °C | 2x 35 mm² |
| AWG number as coded connectable conductor cross section for main contacts | 18 ... 0 |

| Safety related data | |
|---|---|
| **product function** | |
| ● mirror contact according to IEC 60947-4-1 | No |
| ● positively driven operation according to IEC 60947-5-1 | No |
| **protection class IP on the front according to IEC 60529** | IP20 |
| **touch protection on the front according to IEC 60529** | finger-safe, for vertical contact from the front |

## Certificates/ approvals

**General Product Approval**


Confirmation



KC

| EMC | Declaration of Conformity | Test Certificates | Marine / Shipping |
|---|---|---|---|




Type Test Certificates/Test Report

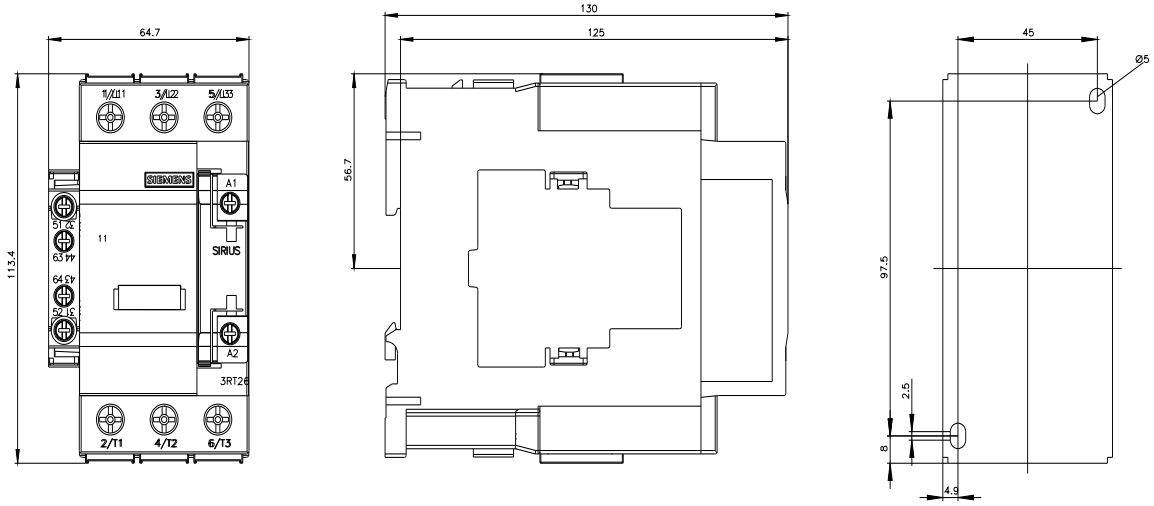


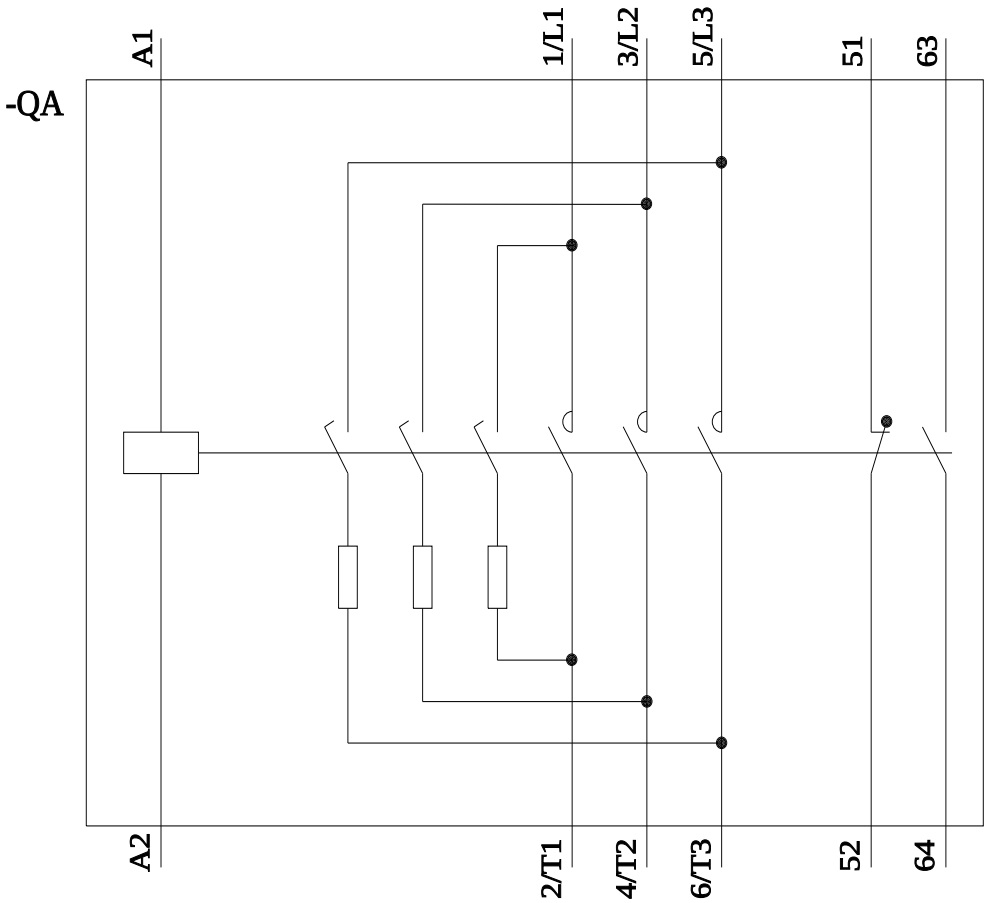
| other | Dangerous Good |
|---|---|

Confirmation Transport Information

## Further information

**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**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=3RT2637-1AP03
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2637-1AP03
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RT2637-1AP03
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2637-1AP03&lang=en
**Characteristic: Tripping characteristics, I²t, Let-through current**
https://support.industry.siemens.com/cs/ww/en/ps/3RT2637-1AP03/char
**Further characteristics (e.g. electrical endurance, switching frequency)**
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2637-1AP03&objecttype=14&gridview=view1



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