

Contactor AC-3 6A/2,2kW 400V 1NC AC24V 50/60Hz size S00, screw terminal

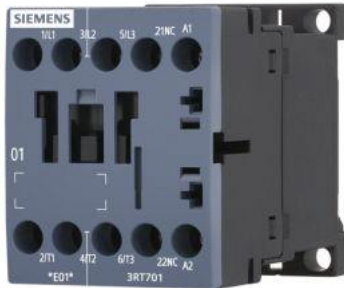


Figure similar

| General technical data   |                             |
|--|-----------------------------|
| size of contactor  | S00                         |
| product extension auxiliary switch                             | Yes                         |
| power loss [W] for rated value of the current                  |                             |
| • at AC in hot operating state per pole                        | 0.42 W                      |
| • without load current share typical                           | 1.51 W                      |
| type of calculation of power loss current-dependent            | quadratic                   |
| insulation voltage rated value                                 | 690 V                       |
| degree of pollution  | 3                           |
| surge voltage resistance rated value                           | 6 kV                        |
| protection class IP  |                             |
| • on the front   | IP20                        |
| • of the terminal  | IP20                        |
| shock resistance with sine pulse at AC                         | 9.8 g / 5 ms, 5.9 g / 10 ms |
| Net Weight   | 0.204 kg                    |
| Ambient conditions   |                             |
| installation altitude at height above sea level maximum        | 2 000 m                     |
| ambient temperature  |                             |
| • during operation   | -10 ... +55 °C              |
| • during storage   | -25 ... +70 °C              |
| 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                           |
| operating voltage  |                             |
| • at AC-3 rated value maximum                                  | 690 V                       |
| • at AC-3e rated value maximum                                 | 690 V                       |
| operational current  |                             |
| • at AC-1 up to 690 V at ambient temperature 40 °C rated value | 20 A                        |
| • at AC-3  |                             |
| — at 400 V rated value   | 6 A                         |
| — at 690 V rated value   | 4 A                         |
| • at AC-3e   |                             |
| — at 400 V rated value   | 6 A                         |
| — at 690 V rated value   | 4 A                         |
| operating power  |                             |
| • at AC-3  |                             |

|   |  |
|---|--|
| — at 230 V rated value  | 1.5 kW   |
| — at 400 V rated value  | 2.2 kW   |
| — at 690 V rated value  | 3 kW   |
| ● at AC-3e  |  |
| — at 400 V rated value  | 2.2 kW   |
| — at 690 V rated value  | 3 kW   |
| <b>operating frequency</b>  |  |
| ● 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>   |  |
| <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   |
| ● at 60 Hz rated value  | 24 V   |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> |  |
| ● at 50 Hz  | 0.8 ... 1.1  |
| ● at 60 Hz  | 0.85 ... 1.1   |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |  |
| ● at 50 Hz  | 27 VA  |
| ● at 60 Hz  | 27 VA  |
| <b>inductive power factor with closing power of the coil</b>                          |  |
| ● at 50 Hz  | 0.8  |
| ● at 60 Hz  | 0.8  |
| <b>apparent holding power of magnet coil at AC</b>                                    |  |
| ● at 50 Hz  | 5.4 VA   |
| ● at 60 Hz  | 5.4 VA   |
| <b>inductive power factor with the holding power of the coil</b>                      |  |
| ● at 50 Hz  | 0.27   |
| ● at 60 Hz  | 0.27   |
| <b>closing power of magnet coil at DC</b>   | 0.8 W  |
| <b>holding power of magnet coil at DC</b>   | 0.27 W   |
| <b>Auxiliary circuit</b>  |  |
| number of NC contacts for auxiliary contacts instantaneous contact                    | 1  |
| number of NO contacts for auxiliary contacts instantaneous contact                    | 0  |
| <b>operational current at AC-15</b>   |  |
| ● at 230 V rated value  | 6 A  |
| ● at 400 V rated value  | 3 A  |
| ● at 690 V rated value  | 1 A  |
| operational current at DC-13 at 220 V rated value                                     | 0.3 A  |
| <b>contact reliability of auxiliary contacts</b>                                      | acceptability for PLC control (17 V, 5 mA)   |
| <b>Short-circuit protection</b>   |  |
| <b>design of the fuse link</b>  |  |
| ● for short-circuit protection of the main circuit                                    |  |
| — with type of coordination 1 required  | gL/gG NH 3NA: 35 A   |
| — with type of coordination 2 required  | gL/gG NH 3NA: 20 A   |
| ● for short-circuit protection of the auxiliary switch required                       | fuse gL/gG: 10 A   |
| <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 50022   |
| <b>height</b>   | 57.5 mm  |
| <b>width</b>  | 45 mm  |
| <b>depth</b>  | 72 mm  |
| required spacing with side-by-side mounting at the side                               | 0 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> </ul> | <p>screw-type terminals</p> <p>screw-type terminals</p>   |
| type of connectable conductor cross-sections for main contacts  |   |
| <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul> | <p>2x (0,5 ... 1,5 mm<sup>2</sup>), 2x (0,75 ... 2,5 mm<sup>2</sup>), max. 2x (1 ... 4 mm<sup>2</sup>)</p> <p>2x (0,5 ... 1,5 mm<sup>2</sup>), 2x (0,75 ... 2,5 mm<sup>2</sup>)</p> |
| connectable conductor cross-section for main contacts finely stranded with core end processing                            | 2.5 mm <sup>2</sup>   |
| connectable conductor cross-section for auxiliary contacts finely stranded with core end processing                       | 0.5 ... 2.5 mm <sup>2</sup>   |
| type of connectable conductor cross-sections for auxiliary contacts   |   |
| <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul> | <p>2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</p> <p>2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</p>                                   |

**Safety related data**

|  |  |
|--|--|
| product function mirror contact according to IEC 60947-4-1 | Yes  |
| <b>Electrical Safety</b>                                   |  |
| 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 |

**Approvals Certificates**

|                    |                                 |            |
|--------------------|---------------------------------|------------|
| <b>Environment</b> | <b>General Product Approval</b> | <b>EMV</b> |
|--------------------|---------------------------------|------------|

[Environmental Confirmations](#)



other

[Confirmation](#)



**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=3RT7014-1AB02>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT7014-1AB02>

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

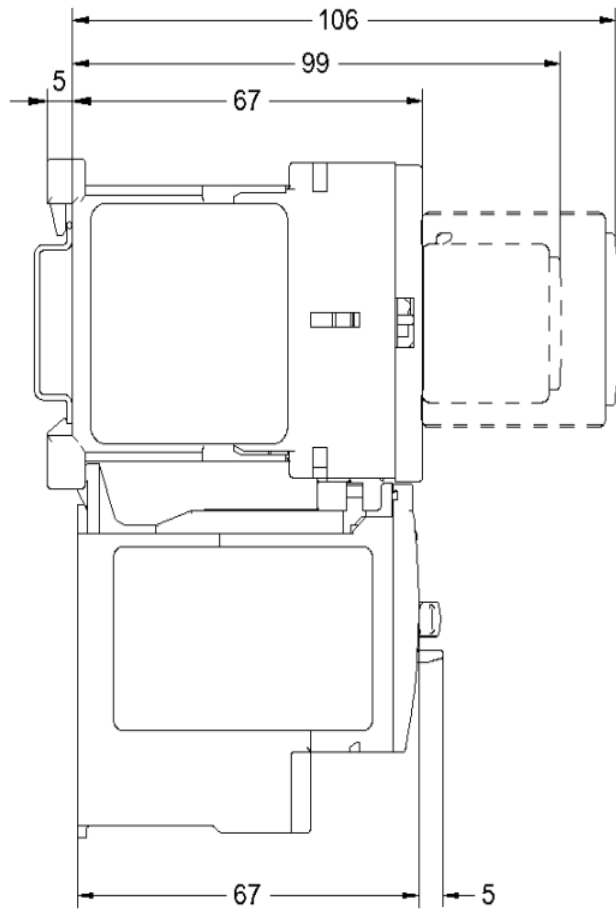
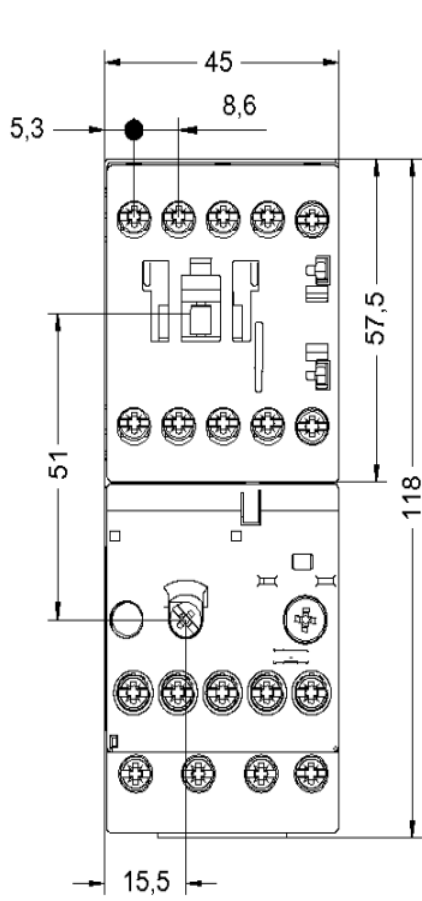
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT7014-1AB02&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT7014-1AB02&lang=en)

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT7014-1AB02>

**Characteristic curves**

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



last modified:

4/4/2026 