

Contactor AC-3 9A/4kW 400V 1NO AC 220V 50/60Hz size S00, screw terminal

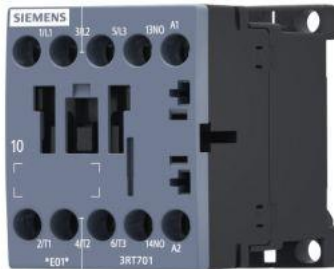


Figure similar

| 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 | 0.7 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 | 0.206 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 | 9 A |
| — at 690 V rated value | 5.2 A |
| • at AC-3e | |
| — at 400 V rated value | 9 A |
| — at 690 V rated value | 5.2 A |
| operating power | |
| • at AC-3 | |

| | |
|---|--|
| — at 230 V rated value | 2.2 kW |
| — at 400 V rated value | 4 kW |
| — at 690 V rated value | 5.5 kW |
| ● at AC-3e | |
| — at 400 V rated value | 4 kW |
| — at 690 V rated value | 5.5 kW |
| operating frequency | |
| ● at AC-3 maximum | 750 1/h |
| ● at AC-3e maximum | 750 1/h |
| ● at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |
| ● at 50 Hz rated value | 220 V |
| ● at 60 Hz rated value | 220 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| ● at 50 Hz | 0.8 ... 1.1 |
| ● at 60 Hz | 0.85 ... 1.1 |
| apparent pick-up power of magnet coil at AC | |
| ● at 50 Hz | 27 VA |
| ● at 60 Hz | 27 VA |
| inductive power factor with closing power of the coil | |
| ● at 50 Hz | 0.8 |
| ● at 60 Hz | 0.8 |
| apparent holding power of magnet coil at AC | |
| ● at 50 Hz | 5.4 VA |
| ● at 60 Hz | 5.4 VA |
| inductive power factor with the holding power of the coil | |
| ● at 50 Hz | 0.27 |
| ● at 60 Hz | 0.27 |
| closing power of magnet coil at DC | 0.8 W |
| holding power of magnet coil at DC | 0.27 W |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts instantaneous contact | 0 |
| number of NO contacts for auxiliary contacts instantaneous contact | 1 |
| operational current at AC-15 | |
| ● 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 |
| contact reliability of auxiliary contacts | acceptability for PLC control (17 V, 5 mA) |
| Short-circuit protection | |
| design of the fuse link | |
| ● 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 |
| 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 side-by-side mounting | Yes |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 |
| height | 57.5 mm |
| width | 45 mm |
| depth | 72 mm |
| required spacing with side-by-side mounting at the side | 0 mm |
| Connections/ Terminals | |

| | |
|---|---|
| type of electrical connection | |
| <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control circuit | <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"> • solid or stranded • finely stranded with core end processing | <p>2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (1 ... 4 mm²)</p> <p>2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)</p> |
| connectable conductor cross-section for main contacts finely stranded with core end processing | 2.5 mm ² |
| connectable conductor cross-section for auxiliary contacts finely stranded with core end processing | 0.5 ... 2.5 mm ² |
| type of connectable conductor cross-sections for auxiliary contacts | |
| <ul style="list-style-type: none"> • solid or stranded • finely stranded with core end processing | <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> |

Safety related data

| | |
|--|--|
| product function mirror contact according to IEC 60947-4-1 | Yes |
| Electrical Safety | |
| 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

| | | |
|---|---|------------|
| Environment | General Product Approval | EMV |
| Environmental Conformations |      | |

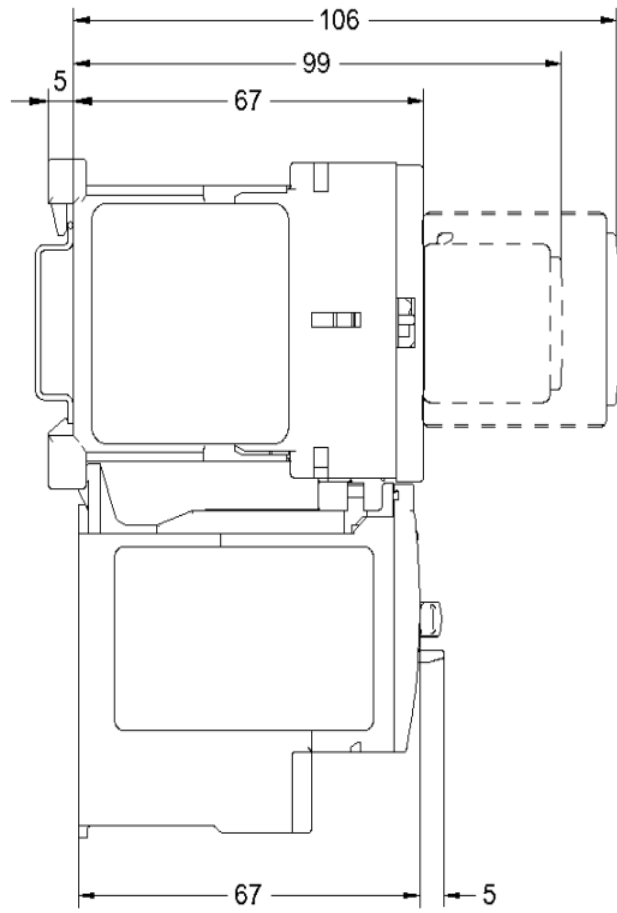
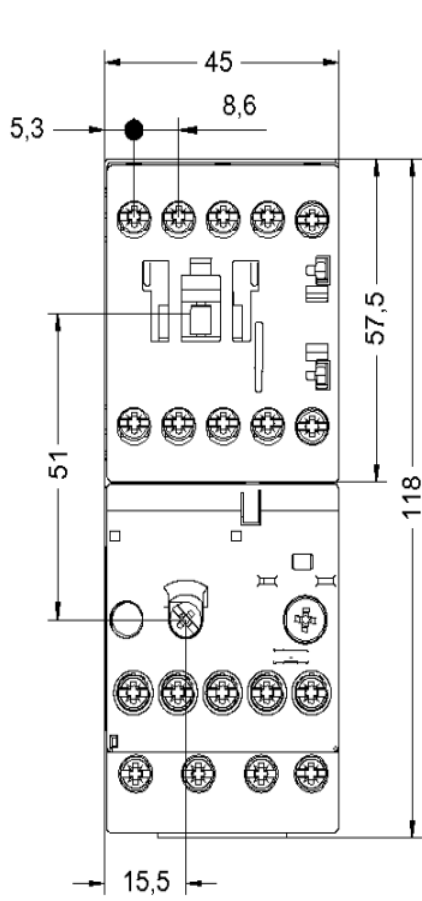
other

[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=3RT7016-1AN21>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
<https://support.industry.siemens.com/cs/ww/en/ps/3RT7016-1AN21>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT7016-1AN21&lang=en
- Cax online generator**
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT7016-1AN21>
- 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 