



Contactor DC 24 V AC3 3 kW 400 V AUX contacts: 1 NO 3-pole, size S00 screw terminal

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| product brand name | SIRIUS |
| product designation | Power contactor |
| product type designation | 3RT6 |
| 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 | 4 W |
| type of calculation of power loss depending on pole | quadratic |
| insulation voltage rated value | 690 V |
| degree of pollution | 3 |
| surge voltage resistance rated value | 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 | |
| • at DC | 6,7g / 5 ms, 4,2g / 10 ms |
| shock resistance with sine pulse | |
| • at DC | 10,5g / 5 ms, 6,6g / 10 ms |
| mechanical service life (operating cycles) | |
| • of contactor typical | 30 000 000 |
| • of the contactor with added auxiliary switch block typical | 10 000 000 |
| Substance Prohibition (Date) | 05/01/2012 |
| Net Weight | 0.28 kg |
| 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 |
| 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 | 18 A |

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| — at ambient temperature 60 °C rated value | 16 A |
| ● at AC-3 | |
| — at 400 V rated value | 7 A |
| — at 690 V rated value | 4.9 A |
| ● at AC-3e | |
| — at 400 V rated value | 7 A |
| — at 690 V rated value | 4.9 A |
| connectable conductor cross-section in main circuit at AC-1 | |
| ● at 60 °C minimum permissible | 2.5 mm ² |
| ● at 40 °C minimum permissible | 2.5 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| ● at 400 V rated value | 2.6 A |
| ● at 690 V rated value | 1.8 A |
| operating power | |
| ● at AC-1 | |
| — at 230 V rated value | 6.3 kW |
| — at 230 V at 60 °C rated value | 6 kW |
| — at 400 V at 60 °C rated value | 10.5 kW |
| — at 690 V at 60 °C rated value | 18 kW |
| ● at AC-3 | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| ● at AC-3e | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| operating power for approx. 200000 operating cycles at AC-4 | |
| ● at 400 V rated value | 1.15 kW |
| ● at 690 V rated value | 1.15 kW |
| no-load switching frequency | |
| ● at DC | 10 000 1/h |
| operating frequency | |
| ● at AC-1 maximum | 1 000 1/h |
| ● 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 | DC |
| control supply voltage at DC rated value | 24 V |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| ● initial value | 0.8 |
| ● full-scale value | 1.1 |
| closing power of magnet coil at DC | 4 W |
| holding power of magnet coil at DC | 4 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-12 maximum | 10 A |
| operational current at AC-15 | |
| ● at 230 V rated value | 10 A |
| ● at 400 V rated value | 3 A |
| ● at 690 V rated value | 1 A |
| operational current at DC-12 | |
| ● at 24 V rated value | 6 A |

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| <ul style="list-style-type: none"> • at 110 V rated value • at 220 V rated value | <p>3 A</p> <p>1 A</p> |
| operational current at DC-13 <ul style="list-style-type: none"> • at 24 V rated value • at 110 V rated value • at 220 V rated value | <p>6 A</p> <p>1 A</p> <p>0.3 A</p> |
| contact reliability of auxiliary contacts | <p>1 faulty switching per 100 million (17 V, 1 mA)</p> |
| UL/CSA ratings | |
| <p>yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value</p> | <p>3 hp</p> |
| Short-circuit protection | |
| design of the fuse link <ul style="list-style-type: none"> • for short-circuit protection of the main circuit <ul style="list-style-type: none"> — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required | <p>gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A</p> <p>gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A</p> <p>fuse gL/gG: 10 A</p> |
| Installation/ mounting/ dimensions | |
| mounting position | <p>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</p> |
| <p>fastening method side-by-side mounting</p> | <p>Yes</p> |
| fastening method | <p>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022</p> |
| height | <p>57.5 mm</p> |
| width | <p>45 mm</p> |
| depth | <p>73 mm</p> |
| required spacing <ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — at the side | <p>0 mm</p> |
| 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> |
| <p>type of connectable conductor cross-sections for main contacts</p> <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), 2x 4 mm²</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> |
| type of connectable conductor cross-sections <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts | <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14), 2x 12</p> |
| Safety related data | |
| <p>product function mirror contact according to IEC 60947-4-1</p> | <p>Yes</p> |
| Electrical Safety | |
| protection class IP on the front according to IEC 60529 | <p>IP20</p> |
| touch protection on the front according to IEC 60529 | <p>finger-safe, for vertical contact from the front</p> |
| Approvals Certificates | |
| General Product Approval | |



[Confirmation](#)



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|-----|----------------------|-------|-----------------|-------------|
| EMV | Maritime application | other | Dangerous goods | Environment |
|-----|----------------------|-------|-----------------|-------------|



[CCS \(China Classification Society\)](#)



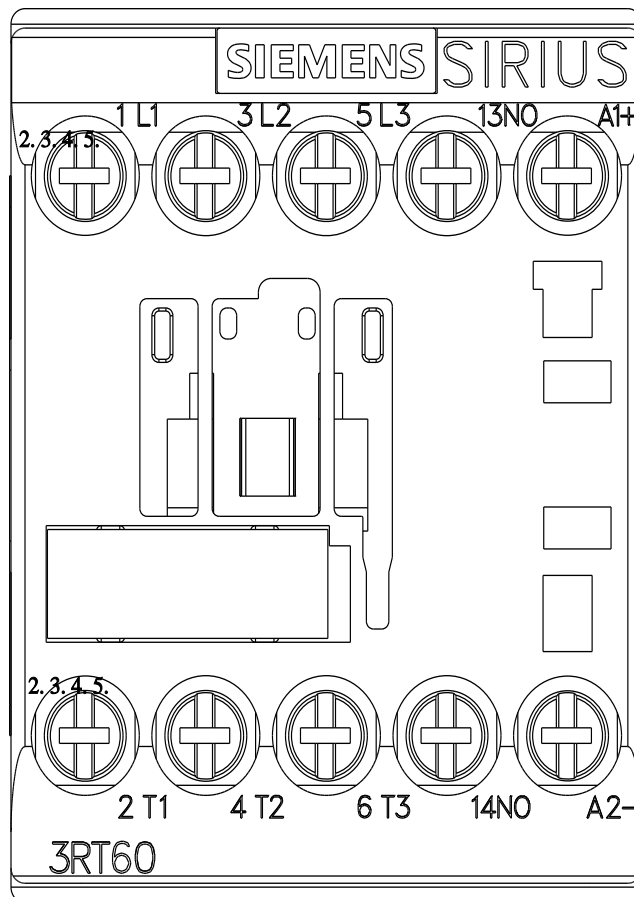
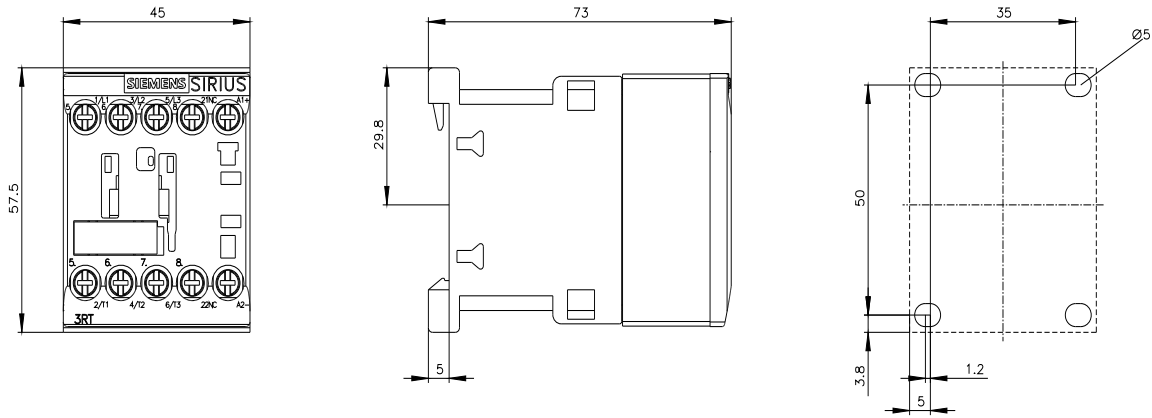
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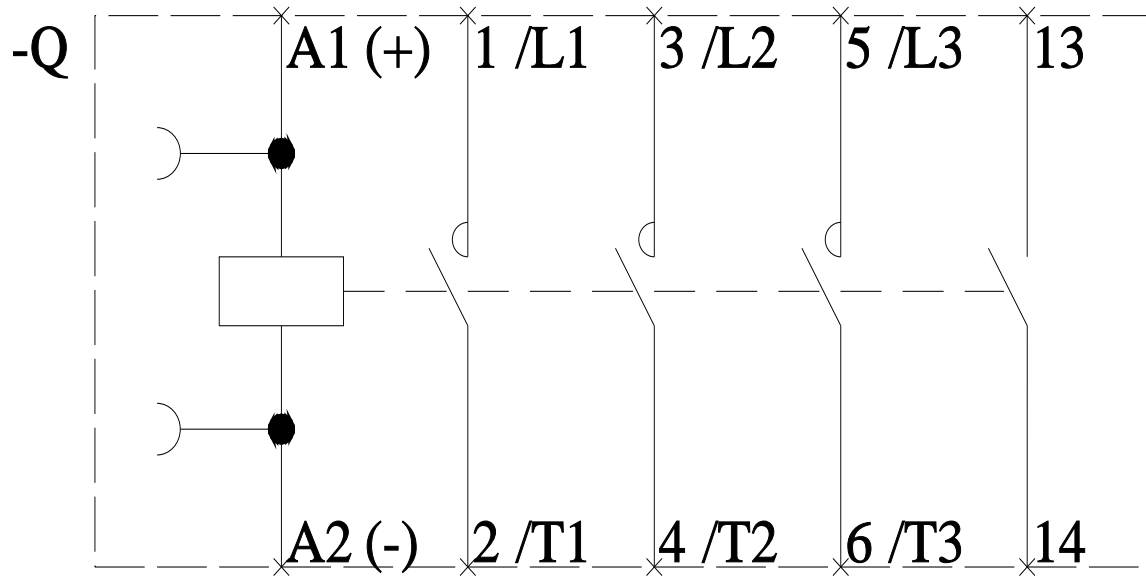
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[Environmental Confirmations](#)

Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/products?pnid=16027&lc=en-CN>





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