



CONTACTOR, AC-3 5.5 KW/400 V, 1 NO, AC 110 V, 50/60 HZ, 3-POLE, SIZE S00, SCREW CONNECTION

Figure similar

| | |
|---|-----------------|
| product brand name | SIRIUS |
| Product designation | power contactor |
| General technical data: | |
| Size of contactor | S00 |
| Degree of pollution | 3 |
| Mechanical service life (switching cycles) | |
| <ul style="list-style-type: none"> • of the contactor typical | 30 000 000 |
| <ul style="list-style-type: none"> • of the contactor with added electronics-compatible auxiliary switch block typical | 5 000 000 |
| <ul style="list-style-type: none"> • of the contactor with added auxiliary switch block typical | 10 000 000 |
| Protection class IP | |
| <ul style="list-style-type: none"> • on the front | IP20 |
| <ul style="list-style-type: none"> • of the terminal | IP20 |
| Equipment marking | |
| <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 | Q |
| <ul style="list-style-type: none"> • acc. to DIN EN 81346-2 | Q |
| Ambient conditions: | |
| Installation altitude at height above sea level maximum | 2 000 m |
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -25 ... +60 °C |
| Main circuit: | |
| Number of poles for main current circuit | 3 |
| Number of NC contacts for main contacts | 0 |

| | |
|--|--|
| Number of NO contacts for main contacts | 3 |
| Operating current | |
| <ul style="list-style-type: none"> • at AC-1 at 400 V <ul style="list-style-type: none"> — at ambient temperature 40 °C Rated value • at AC-1 up to 690 V <ul style="list-style-type: none"> — at ambient temperature 40 °C Rated value — at ambient temperature 60 °C Rated value • at AC-3 <ul style="list-style-type: none"> — at 400 V Rated value • at AC-4 at 400 V Rated value | 22 A 22 A 20 A 12 A 8.5 A |
| Operating current | |
| <ul style="list-style-type: none"> • with 1 current path at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value • with 2 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value • with 3 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value | 20 A 2.1 A 20 A 12 A 20 A 20 A |
| Operating current | |
| <ul style="list-style-type: none"> • with 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value • with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 110 V Rated value — at 24 V Rated value • with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 110 V Rated value — at 24 V Rated value | 20 A 0.15 A 0.35 A 20 A 20 A 20 A |
| Active power loss at AC-3 at 400 V for rated value of the operating current per conductor | 1.24 W |

| | |
|---|-------------------------|
| Control circuit/ Control: | |
| Type of voltage of the control supply voltage | AC |
| Control supply voltage with AC | |
| <ul style="list-style-type: none"> • at 50 Hz Rated value • at 60 Hz Rated value • Rated value | 110 V 110 V 50 Hz |
| Control supply voltage frequency 2 Rated value | 60 Hz |
| Operating range factor control supply voltage rated value of the magnet coil with AC | |
| <ul style="list-style-type: none"> • at 50 Hz | 0.8 ... 1.1 |

| | |
|--|--------------|
| • at 60 Hz | 0.85 ... 1.1 |
| Apparent pick-up power of the magnet coil with AC | 27 V·A |
| Inductive power factor with closing power of the coil | 0.8 |
| Apparent holding power of the magnet coil with AC | 4.4 V·A |
| Inductive power factor with the holding power of the coil | 0.27 |

Auxiliary circuit:

| | |
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| Number of NC contacts | |
| • for auxiliary contacts | |
| — instantaneous contact | 0 |
| Number of NO contacts | |
| • for auxiliary contacts | |
| — instantaneous contact | 1 |
| Operating current at AC-12 maximum | 10 A |
| Operating current at AC-15 | |
| • at 230 V Rated value | 6 A |
| • at 400 V Rated value | 3 A |
| Operating current at DC-12 | |
| • at 60 V Rated value | 6 A |
| • at 110 V Rated value | 3 A |
| • at 220 V Rated value | 1 A |
| Operating current at DC-13 | |
| • at 24 V Rated value | 10 A |
| • at 60 V Rated value | 2 A |
| • at 110 V Rated value | 1 A |
| • at 220 V Rated value | 0.3 A |
| Contact reliability of the auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

Short-circuit:

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|---|------------------|
| Design of the fuse link | |
| • for short-circuit protection of the main circuit | |
| — with type of assignment 1 required | fuse gL/gG: 35 A |
| — with type of assignment 2 required | fuse gL/gG: 20 A |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |

Installation/ mounting/ dimensions:

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|-------------------------|--|
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| • Side-by-side mounting | Yes |
| Height | 57.5 mm |
| Width | 45 mm |
| Depth | 72 mm |

| | |
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| Required spacing | |
| <ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> at the side | 6 mm |

Connections/ Terminals:

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|--|---|
| Type of electrical connection | |
| <ul style="list-style-type: none"> for main current circuit for auxiliary and control current circuit | <p>screw-type terminals</p> <p>screw-type terminals</p> |
| Type of connectable conductor cross-section | |
| <ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> solid single or multi-stranded finely stranded with core end processing for AWG conductors for main contacts | <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)</p> <p>2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14), 1x 12</p> |
| Type of connectable conductor cross-section | |
| <ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> solid finely stranded with core end processing for AWG conductors for auxiliary contacts | <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14), 1x 12</p> |

Certificates/ approvals:

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| General Product Approval | Functional Safety/Safety of Machinery | Declaration of Conformity |
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[Type Examination](#)



| | |
|--------------------------|--------------------------|
| Test Certificates | Shipping Approval |
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[Special Test Certificate](#)



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| Shipping Approval | other |
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Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

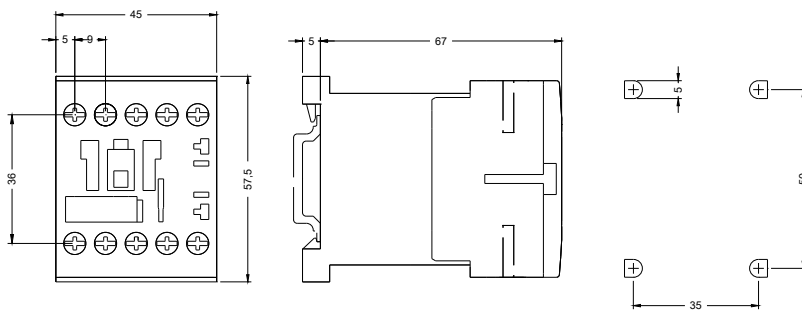
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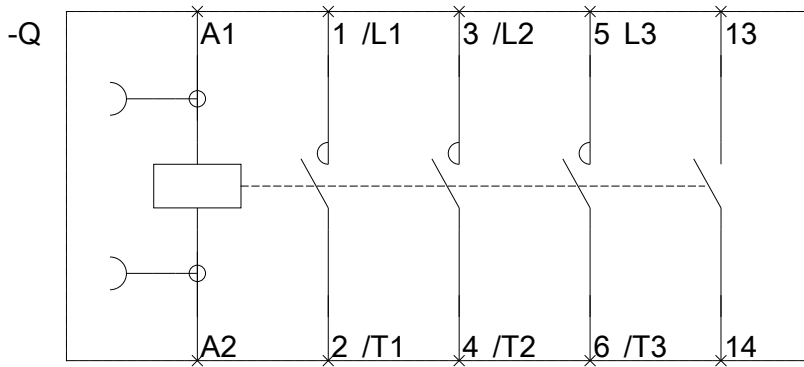
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10171AF01>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RT10171AF01&lang=en





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