

CONTACTOR, AC-3 7.5 KW/400 V, DC 24 V, 3-POLE, SIZE S0,
SCREW CONNECTION



Figure similar

| | |
|---------------------|-----------------|
| product brand name | SIRIUS |
| Product designation | power contactor |

General technical data:

| | |
|---|------------|
| Size of contactor | S0 |
| Degree of pollution | 3 |
| Protection class IP | |
| • on the front | IP20 |
| • of the terminal | IP20 |
| Mechanical service life (switching cycles) | |
| • of contactor typical | 10 000 000 |
| • of the contactor with added electronics-compatible auxiliary switch block typical | 5 000 000 |
| • of the contactor with added auxiliary switch block typical | 10 000 000 |

Ambient conditions:

| | |
|---|----------------|
| Installation altitude at height above sea level maximum | 2 000 m |
| Ambient temperature | |
| • during operation | -25 ... +60 °C |

Main circuit:

| | |
|---|--------------------------|
| Number of NO contacts for main contacts | 3 |
| Number of NC contacts for main contacts | 0 |
| 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 | 40 A |
| <ul style="list-style-type: none"> • 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 | 40 A 35 A |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value | 17 A |
| Operating current | |
| <ul style="list-style-type: none"> • at 1 current path at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value | 35 A 4.5 A |
| <ul style="list-style-type: none"> • 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 | 35 A 35 A |
| <ul style="list-style-type: none"> • 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 | 35 A 35 A |
| Operating current | |
| <ul style="list-style-type: none"> • at 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 | 20 A 2.5 A |
| <ul style="list-style-type: none"> • 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 | 15 A 35 A |
| <ul style="list-style-type: none"> • 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 | 35 A 35 A |
| Operating power | |
| <ul style="list-style-type: none"> • at AC-1 <ul style="list-style-type: none"> — at 400 V rated value | 23 kW |
| <ul style="list-style-type: none"> • at AC-2 at 400 V rated value | 7.5 kW |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value — at 500 V rated value — at 690 V rated value | 7.5 kW 10 kW 11 kW |
| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | 0.9 W |

| 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 | 0.8 ... 1.1 |
| Closing power of magnet coil at DC | 5.4 W |
| Holding power of magnet coil at DC | 5.4 W |

| Auxiliary circuit: | |
|---|---|
| Number of NC contacts | |
| • for auxiliary contacts | |
| — instantaneous contact | 0 |
| Number of NO contacts | |
| • for auxiliary contacts | |
| — instantaneous contact | 0 |
| 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 auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

| Short-circuit protection | |
|---|------------------|
| Design of the fuse link | |
| • for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | fuse gL/gG: 63 A |
| — with type of assignment 2 required | fuse gL/gG: 25 A |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |

| Installation/ mounting/ dimensions: | |
|-------------------------------------|--|
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| • Side-by-side mounting | Yes |
| Height | 85 mm |

| | |
|---|--------|
| Width | 45 mm |
| Depth | 101 mm |
| Required spacing | |
| <ul style="list-style-type: none"> • for grounded parts <ul style="list-style-type: none"> — at the side | 6 mm |

Connections/ Terminals:

| | |
|---|---|
| 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-sections | |
| <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 • at AWG conductors for main contacts | <p>2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), max. 2x 10 mm²</p> <p>2x (1 ... 2,5 mm²), 2x (2,5 ... 6 mm²), max. 2x 10 mm²</p> <p>2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)</p> <p>2x (16 ... 12), 2x (14 ... 10), 1x 8</p> |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid — finely stranded with core end processing • at 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

| | | |
|---------------------------------|----------------------------------|--------------------------|
| General Product Approval | Declaration of Conformity | Test Certificates |
|---------------------------------|----------------------------------|--------------------------|



CCC



CSA



UL



EG-Konf.

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| | |
|--------------------------|--------------------------|
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ABS



DNV



GL



LRS

| | |
|--------------------------|--------------|
| Shipping Approval | other |
|--------------------------|--------------|



RINA



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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3RT10251BB40>

Cax online generator

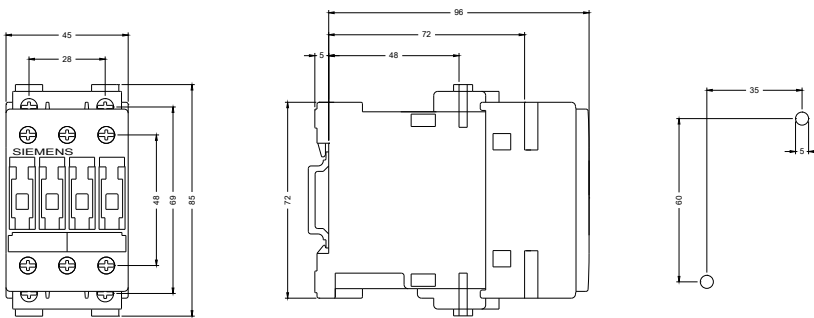
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RT10251BB40>

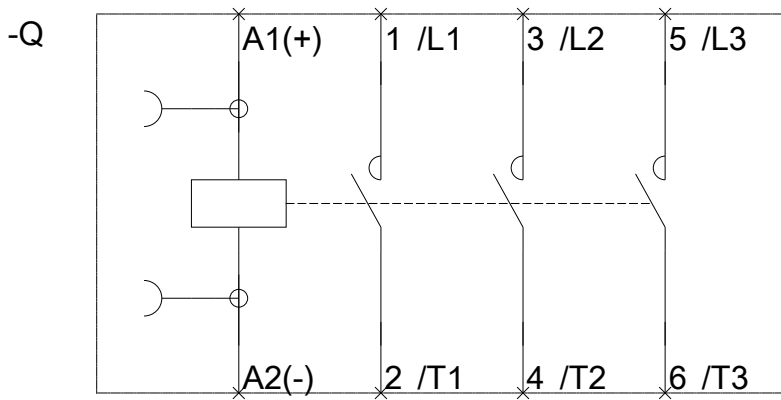
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10251BB40>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RT10251BB40&lang=en





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