

CONTACTOR, AC-3 5.5KW/400 V, AC-1 22 A, AC 230 V, 50 HZ, 4-POLE, 2 NO + 2 NC, SIZE S00, SCREW CONNECTION



Figure similar

| | |
|---|-----------------|
| product brand name | SIRIUS |
| Product designation | power contactor |
| General technical data: | |
| Size of contactor | S00 |
| Insulation voltage | |
| • rated value | 690 V |
| Protection class IP | |
| • on the front | IP20 |
| Degree of pollution | 3 |
| Mechanical service life (switching cycles) | |
| • of contactor typical | 30 000 000 |
| • 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
- during storage

-25 ... +60 °C

-55 ... +80 °C

Main circuit:

| | |
|---|--|
| Number of NO contacts for main contacts | 2 |
| Number of NC contacts for main contacts | 2 |
| Operating current | |
| <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 • at AC-2 at AC-3 at 400 V <ul style="list-style-type: none"> — per NO contact rated value — per NC contact rated value | <p>22 A</p> <p>20 A</p> <p>12 A</p> <p>12 A</p> |
| Connectable conductor cross-section in main circuit at AC-1 | |
| <ul style="list-style-type: none"> • at 60 °C minimum permissible • at 40 °C minimum permissible | <p>2.5 mm²</p> <p>2.5 mm²</p> |
| 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 — at 220 V rated value — at 440 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 — at 220 V rated value — at 440 V rated value | <p>20 A</p> <p>2.1 A</p> <p>0.8 A</p> <p>0.6 A</p> <p>20 A</p> <p>12 A</p> <p>1.6 A</p> <p>0.8 A</p> |
| 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 per NC contact rated value — at 24 V per NO contact rated value — at 110 V per NC contact rated value — at 110 V per NO contact rated value — at 220 V per NC contact rated value — at 220 V per NO contact rated value • with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 110 V per NC contact rated value — at 110 V per NO contact rated value — at 24 V per NC contact rated value — at 24 V per NO contact rated value | <p>20 A</p> <p>20 A</p> <p>0.075 A</p> <p>0.15 A</p> <p>0.375 A</p> <p>0.75 A</p> <p>0.175 A</p> <p>0.35 A</p> <p>20 A</p> <p>20 A</p> |
| Operating power | |

| | |
|--|--|
| <ul style="list-style-type: none"> • at AC-1 <ul style="list-style-type: none"> — at 230 V rated value — at 400 V rated value • at AC-2 at AC-3 <ul style="list-style-type: none"> — at 230 V per NC contact rated value — at 230 V per NO contact rated value — at 400 V per NC contact rated value — at 400 V per NO contact rated value | <p>7.5 kW</p> <p>13 kW</p> <p>3 kW</p> <p>3 kW</p> <p>5.5 kW</p> <p>5.5 kW</p> |
| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | 0.7 W |
| Operating frequency | |
| <ul style="list-style-type: none"> • at AC-1 maximum | 1 000 1/h |

| Control circuit/ Control: | |
|--|---|
| Type of voltage of the control supply voltage | AC |
| Control supply voltage at AC | |
| <ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value | <p>230 V</p> <p>230 V</p> |
| Operating range factor control supply voltage rated value of magnet coil at AC | |
| <ul style="list-style-type: none"> • at 50 Hz • at 60 Hz | <p>0.8 ... 1.1</p> <p>0.85 ... 1.1</p> |
| Apparent pick-up power of magnet coil at AC | 27 V·A |
| <ul style="list-style-type: none"> • at 50 Hz | 27 V·A |
| Inductive power factor with closing power of the coil | 0.8 |
| <ul style="list-style-type: none"> • at 50 Hz | 0.8 |
| Apparent holding power of magnet coil at AC | 4.4 V·A |
| <ul style="list-style-type: none"> • at 50 Hz | 4.4 V·A |
| Inductive power factor with the holding power of the coil | 0.27 |
| <ul style="list-style-type: none"> • at 60 Hz | 0.27 |
| Closing delay | |
| <ul style="list-style-type: none"> • at AC • at DC | <p>8 ... 35 ms</p> <p>25 ... 100 ms</p> |
| Opening delay | |
| <ul style="list-style-type: none"> • at AC • at DC | <p>4 ... 30 ms</p> <p>7 ... 10 ms</p> |
| Arcing time | 10 ... 15 ms |
| Control version of the switch operating mechanism | conventional |
| Residual current of the electronics for control with signal <0> | |
| <ul style="list-style-type: none"> • at AC at 230 V maximum permissible | 0.003 A |

Auxiliary circuit:

| | |
|--|---|
| Number of NC contacts | |
| <ul style="list-style-type: none"> • for auxiliary contacts — instantaneous contact | 0 |
| Number of NO contacts | |
| <ul style="list-style-type: none"> • for auxiliary contacts — instantaneous contact | 0 |
| Operating current at AC-12 maximum | 10 A |
| Operating current at AC-15 | |
| <ul style="list-style-type: none"> • at 230 V rated value • at 400 V rated value | 6 A 3 A |
| Operating current at DC-12 | |
| <ul style="list-style-type: none"> • at 60 V rated value • at 110 V rated value • at 220 V rated value | 6 A 3 A 1 A |
| Operating current at DC-13 | |
| <ul style="list-style-type: none"> • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value | 10 A 2 A 1 A 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 | |
| <ul style="list-style-type: none"> • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 35 A fuse gL/gG: 20 A fuse gL/gG: 10 A |

Installation/ mounting/ dimensions:

| | |
|---|---|
| Mounting position | with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back |
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <ul style="list-style-type: none"> • Side-by-side mounting | Yes |
| Height | 57.5 mm |
| Width | 45 mm |
| Depth | 72 mm |
| Required spacing | |
| <ul style="list-style-type: none"> • for grounded parts — 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 (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-sections <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid — single or multi-stranded — 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), 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> |

Safety related data:

| | |
|---|----------------|
| Failure rate [FIT] <ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 | <p>100 FIT</p> |
|---|----------------|

Certificates/approvals

| | |
|---------------------------------|--|
| General Product Approval | Functional Safety/Safety of Machinery |
|---------------------------------|--|



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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?mlfb=3RT15171AP00>

Cax online generator

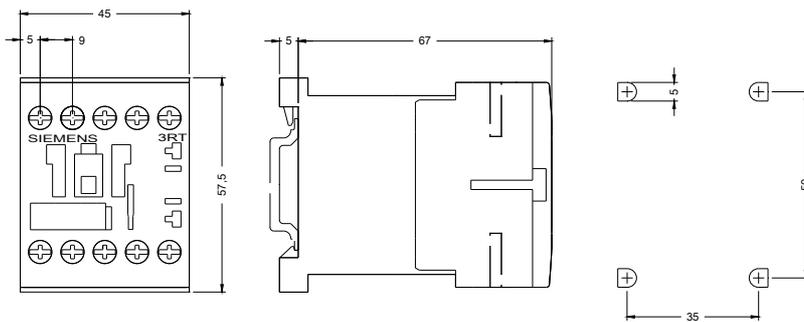
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT15171AP00>

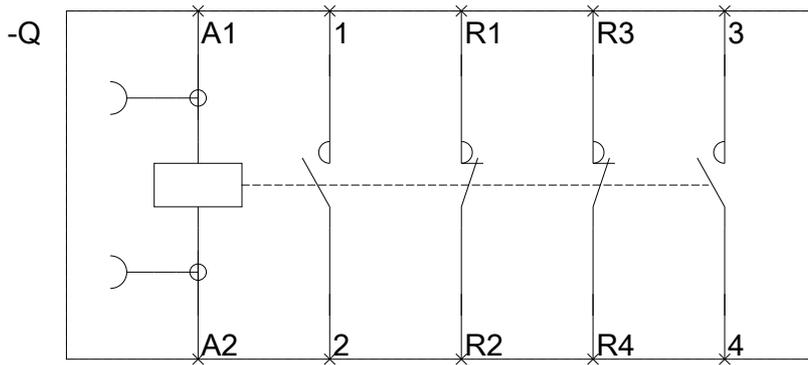
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT15171AP00>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT15171AP00&lang=en





last modified:

15.02.2016