



CONTACTOR, AC-3 7,5 KW/400 V,
AC 110V 50HZ/120V 60HZ, 3-POLE,
SIZE S0, SCREW CONNECTION

General technical data:

| | | |
|---|----|-------------|
| product brand name | | SIRIUS |
| Size of the contactor | | S0 |
| Protection class IP / on the front | | IP20 |
| Degree of pollution | | 3 |
| Installation altitude / at a height over sea level / maximum | m | 2,000 |
| Ambient temperature / during operating | °C | -25 ... +60 |
| Mechanical operating cycles as operating time | | |
| <ul style="list-style-type: none"> • of the contactor / typical | | 10,000,000 |
| <ul style="list-style-type: none"> • of the contactor with added auxiliary switch block / typical | | 10,000,000 |
| <ul style="list-style-type: none"> • of the contactor with added electronics-compatible auxiliary switch block / typical | | 5,000,000 |

Main circuit:

| | | |
|--|---|----|
| 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 40 °C ambient temperature / rated value • at 60 °C ambient temperature / rated value • at AC-3 / at 400 V / rated value | A | 40 |
| | A | 35 |
| | A | 17 |

| | | |
|--|----|-------|
| • at AC-4 / at 400 V / rated value | A | 15.5 |
| • with 1 current path / at DC-1 | | |
| • at 24 V / rated value | A | 35 |
| • at 110 V / rated value | A | 4.5 |
| • with 2 current paths in series / at DC-1 | | |
| • at 24 V / rated value | A | 35 |
| • at 110 V / rated value | A | 35 |
| • with 3 current paths in series / at DC-1 | | |
| • at 24 V / rated value | A | 35 |
| • at 110 V / rated value | A | 35 |
| • with 1 current path / at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 20 |
| • at 110 V / rated value | A | 2.5 |
| • with 2 current paths in series / at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 35 |
| • at 110 V / rated value | A | 15 |
| • with 3 current paths in series / at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 35 |
| • at 110 V / rated value | A | 35 |
| Service power | | |
| • at AC-2 / at 400 V / rated value | kW | 7.5 |
| • at AC-3 / at 400 V / rated value | kW | 7.5 |
| • at AC-4 / at 400 V / rated value | W | 7,500 |

| Control circuit: | | |
|---|-----|-------------|
| Type of voltage / of the controlled supply voltage | | AC |
| Operating range factor control supply voltage rated value / of the magnet coil | | |
| • at 50 Hz | | |
| • for AC | | 0.8 ... 1.1 |
| • at 60 Hz | | |
| • for AC | | 0.8 ... 1.1 |
| Apparent pull-in power / of the solenoid / for AC | V·A | 69 |
| Apparent holding power / of the solenoid / for AC | V·A | 7.5 |
| Inductive power factor / with the pull-in power of the coil | | 0.76 |
| Inductive power factor / with the pull-in power of the coil | | 0.28 |

| Auxiliary circuit: | | |
|---|--|---|
| Contact reliability / of the auxiliary contacts | | 1 faulty switching per 100 million (17 V, 1 mA) |
| Number of NC contacts / for auxiliary contacts / instantaneous switching | | 0 |

| | | |
|---|--|---|
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 0 |
|---|--|---|

Short-circuit:

| | | |
|---|--|------------------|
| Design of the fuse link | | |
| <ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch / required | | fuse gL/gG: 10 A |
| <ul style="list-style-type: none"> • for short-circuit protection of the main circuit | | fuse gL/gG: 63 A |
| <ul style="list-style-type: none"> • with type of assignment 1 / required | | fuse gL/gG: 25 A |
| <ul style="list-style-type: none"> • at type of coordination 2 / required | | |

Installation/mounting/dimensions:

| | | |
|---|----|--|
| Type of mounting | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| series installation | | Yes |
| Width | mm | 45 |
| Height | mm | 85 |
| Depth | mm | 91 |
| Distance, to be maintained, to earthed part / sideways | mm | 6 |

Connection type:

| | | |
|---|--|--|
| Design of the electrical connection | | |
| <ul style="list-style-type: none"> • for main current circuit | | screw-type terminals |
| <ul style="list-style-type: none"> • for auxiliary and control current circuit | | screw-type terminals |
| Type of the connectable conductor cross-section | | |
| <ul style="list-style-type: none"> • for main contacts | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²), max. 2x 10 mm ² |
| <ul style="list-style-type: none"> • solid | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| <ul style="list-style-type: none"> • finely stranded | | 2x (20 ... 16), 2x (18 ... 14), 1x 12 |
| <ul style="list-style-type: none"> • with conductor end processing | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²) |
| <ul style="list-style-type: none"> • for AWG conductors / for main contacts | | 2x (20 ... 16), 2x (18 ... 14), 1x 12 |
| <ul style="list-style-type: none"> • for auxiliary contacts | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| <ul style="list-style-type: none"> • solid | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| <ul style="list-style-type: none"> • finely stranded | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| <ul style="list-style-type: none"> • with conductor end processing | | 2x (20 ... 16), 2x (18 ... 14), 1x 12 |
| <ul style="list-style-type: none"> • for AWG conductors / for auxiliary contacts | | |

Certificates/approvals:

General Product Approval

Functional Safety /
Safety of
Machinery



[Type Examination](#)

Declaration of
Conformity

Test Certificates



EG-Konf.

[Special Test
Certificate](#)

[Type Test
Certificates/Test
Report](#)

Shipping Approval



ABS



DNV



GL



LRS



RINA



RMRS

other

[Confirmation](#)

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[Environmental
Confirmations](#)

Further information:

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

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

Industry Mall (Online ordering system)

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

Cax online generator:

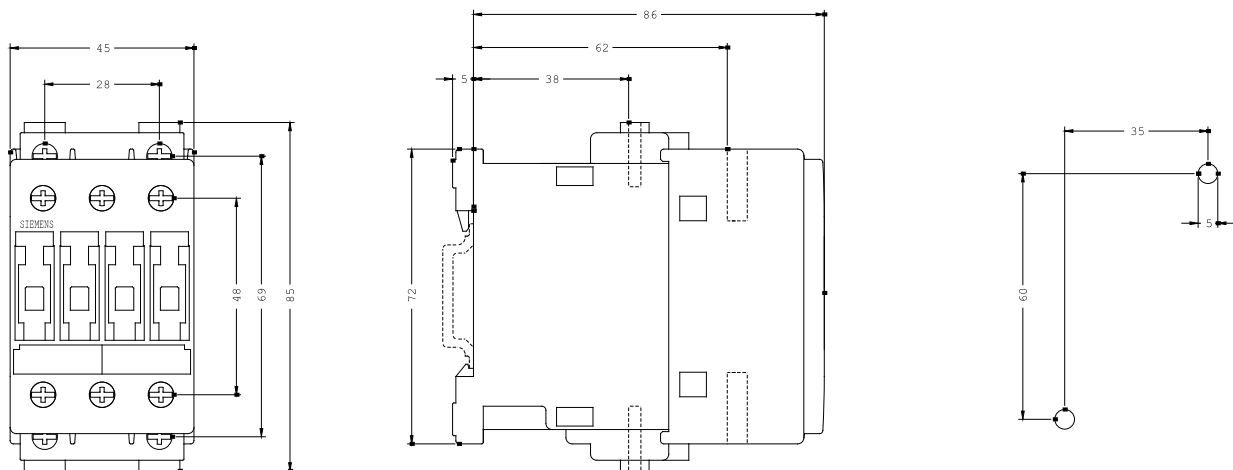
<http://www.siemens.com/cax>

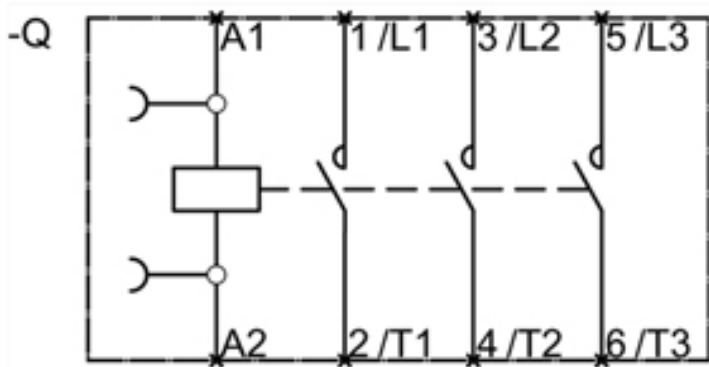
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1025-1AK60/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1025-1AK60





last change:

Aug 12, 2013