



CONTACTOR, 90KW/400V/AC-3,
AC(40...60HZ)/DC OPERATION UC 110...127V AUXIL.
CONTACTS 2NO+2NC 3-POLE,
SIZE S6 BAR CONNECTIONS CONVENTION. OPERATING
MECHANISM SCREW TERMINAL

General technical data:

| | | |
|---|----|--|
| product brand name | | SIRIUS |
| Size of the contactor | | S6 |
| Protection class IP / on the front | | IP00 |
| 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 • of the contactor with added auxiliary switch block / typical • of the contactor with added electronics-compatible auxiliary switch block / typical | | <p>10,000,000</p> <p>10,000,000</p> <p>5,000,000</p> |

Main circuit:

| | | |
|--|----------------------------|----------------------------------|
| Number of NC contacts / for main contacts | | 0 |
| Number of NO contacts / for main contacts | | 3 |
| Operational 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 | <p>A</p> <p>A</p> <p>A</p> | <p>215</p> <p>185</p> <p>185</p> |

| | | |
|--|----|--------|
| • at AC-4 / at 400 V / rated value | A | 160 |
| • with 1 current path / at DC-1 | | |
| • at 24 V / rated value | A | 160 |
| • at 110 V / rated value | A | 18 |
| • with 2 current paths in series / at DC-1 | | |
| • at 24 V / rated value | A | 160 |
| • at 110 V / rated value | A | 160 |
| • with 3 current paths in series / at DC-1 | | |
| • at 24 V / rated value | A | 160 |
| • at 110 V / rated value | A | 160 |
| • with 1 current path / at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 160 |
| • 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 | 160 |
| • at 110 V / rated value | A | 160 |
| • with 3 current paths in series / at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 160 |
| • at 110 V / rated value | A | 160 |
| Service power | | |
| • at AC-2 / at 400 V / rated value | kW | 104 |
| • at AC-3 / at 400 V / rated value | kW | 104 |
| • at AC-4 / at 400 V / rated value | W | 90,000 |

| Control circuit: | | |
|---|-----|---------------|
| Design of the surge suppressor | | with varistor |
| Type of voltage / of the controlled supply voltage | | AC/DC |
| 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 |
| • for DC | | 0.8 ... 1.1 |
| Apparent pull-in power / of the solenoid / for AC | V·A | 300 |
| Apparent holding power / of the solenoid / for AC | V·A | 5.8 |
| Inductive power factor / with the pull-in power of the coil | | 0.9 |
| Inductive power factor / with the pull-in power of the coil | | 0.8 |
| Pull-in power / of the solenoid / for DC | W | 360 |
| Holding power / of the solenoid / for DC | W | 5.2 |

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 | | 2 |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 2 |

Short-circuit:

| | | |
|---|--|--|
| Design of the fuse link | | |
| <ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit <ul style="list-style-type: none"> • with type of assignment 1 / required • at type of coordination 2 / required | | fuse gL/gG: 10 A fuse gL/gG: 355 A fuse gL/gG: 315 A |

Installation/mounting/dimensions:

| | | |
|---|----|--------------|
| Type of mounting | | screw fixing |
| series installation | | Yes |
| Width | mm | 120 |
| Height | mm | 172 |
| Depth | mm | 180 |
| Distance, to be maintained, to earthed part / sideways | mm | 10 |

Connection type:

| | | |
|--|--|---|
| Design of the electrical connection | | |
| <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit | | screw-type terminals screw-type terminals |
| Type of the connectable conductor cross-section | | |
| <ul style="list-style-type: none"> • for AWG conductors / for main contacts • for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded <ul style="list-style-type: none"> • with conductor end processing • for AWG conductors / for auxiliary contacts | | 4 ... 250 kcmil 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 1x 12 |

Certificates/approvals:

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



CCC



CSA



GOST



UL

[Type Examination](#)



EG-Konf.

| | |
|-------------------|-------------------|
| Test Certificates | Shipping Approval |
|-------------------|-------------------|

[other](#)

[Special Test Certificate](#)



ABS



DNV



GL



RMRS

[other](#)

[Confirmation](#)

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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:

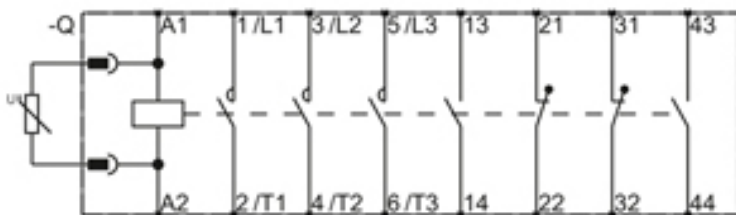
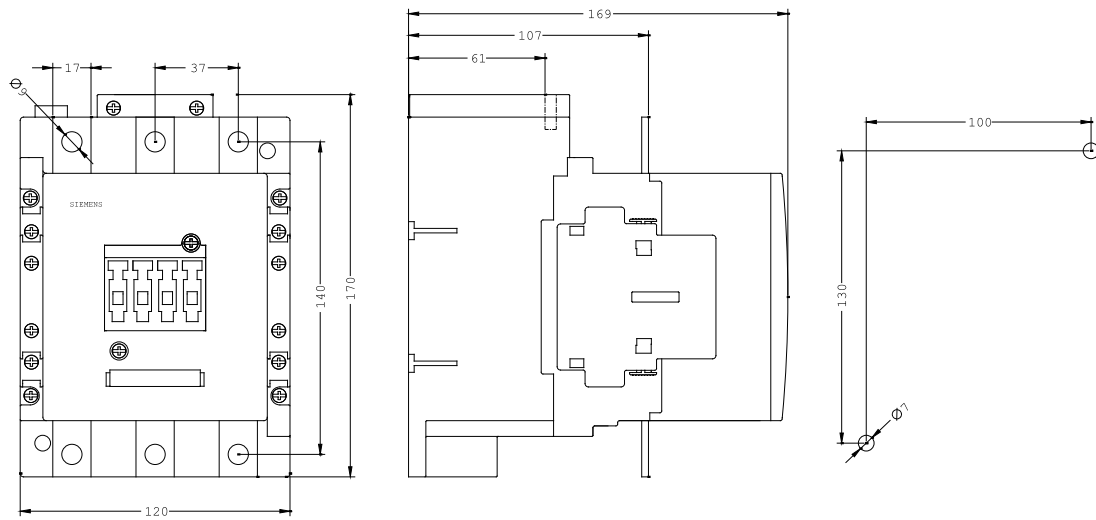
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1056-6AF36/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1056-6AF36



last change:

Feb 15, 2013