



CONTACTOR, AC-3 37 KW/400 V, DC 125 V,
3-POLE, SIZE S3, SCREW CONNECTION

General technical data:

| | | |
|---|----|--|
| product brand name | | SIRIUS |
| Size of the contactor | | S3 |
| 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 • 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 |
| 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 AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value | <p>A</p> <p>A</p> <p>A</p> | <p>120</p> <p>80</p> <p>66</p> |

| | | |
|---|----|--------|
| <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 | A | 100 |
| | A | 9 |
| <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 | A | 100 |
| | A | 100 |
| <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 | A | 100 |
| | A | 100 |
| <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 | A | 40 |
| | A | 2.5 |
| <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 24 V / rated value at 110 V / rated value | A | 100 |
| | A | 100 |
| <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 24 V / rated value at 110 V / rated value | A | 100 |
| | A | 100 |
| Service power | | |
| <ul style="list-style-type: none"> at AC-2 / at 400 V / rated value | kW | 37 |
| <ul style="list-style-type: none"> at AC-3 / at 400 V / rated value | kW | 37 |
| <ul style="list-style-type: none"> at AC-4 / at 400 V / rated value | W | 37,000 |

| Control circuit: | | |
|---|---|-------------|
| Voltage type / of control feed voltage | | DC |
| Operating range factor control supply voltage rated value / of the magnet coil | | |
| <ul style="list-style-type: none"> for DC | | 0.8 ... 1.1 |
| Pull-in power / of the solenoid / for DC | W | 15 |
| Holding power / of the solenoid / for DC | W | 15 |

| 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 for short-circuit protection of the main circuit | | fuse gL/gG: 10 A |

- with type of assignment 1 / required
- at type of coordination 2 / required

fuse gL/gG: 250 A

fuse gL/gG: 160 A

Installation/mounting/dimensions:

| | | |
|---|----|--|
| Mounting type | | screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail |
| series installation | | Yes |
| Width | mm | 70 |
| Height | mm | 146 |
| Depth | mm | 152 |
| 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 • for auxiliary and control current circuit | | <p>screw-type terminals</p> <p>screw-type terminals</p> |
| Type of the connectable conductor cross-section | | |
| <ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> • solid • stranded • finely stranded <ul style="list-style-type: none"> • with conductor end processing • without conductor final cutting • 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 | | <p>2x (2.5 ... 16 mm²)</p> <p>2x (10 ... 50 mm²)</p> <p>2x (2.5 ... 35 mm²)</p> <p>2x (10 ... 35 mm²)</p> <p>2x (10 ... 1/0)</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> |

Certificates/approvals:

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



CCC



CSA



UL

[Type Examination](#)



EG-Konf.

Test Certificates

[Special Test Certificate](#)

Shipping Approval



ABS



GL



LRS



RINA



RMRS

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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:

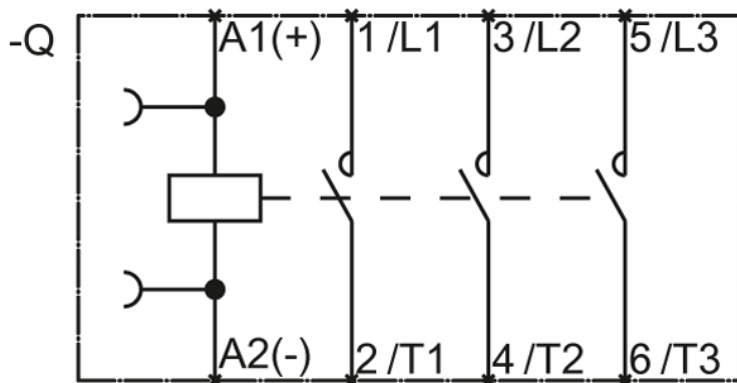
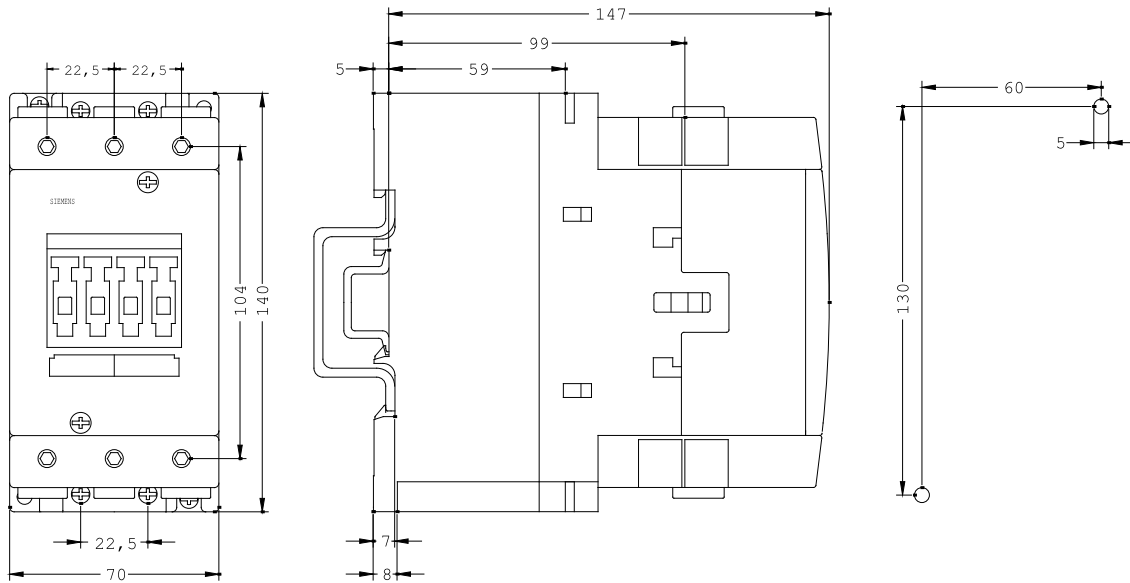
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1045-1BG40/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1045-1BG40



last change:

Jul 28, 2014