



CONTACTOR, AC-3 30 KW/400 V, AC 48 V,
50 HZ, 2 NO + 2 NC, 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 | | 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 | A | 100 |
| <ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value | A | 65 |
| <ul style="list-style-type: none"> • at AC-4 / at 400 V / rated value | A | 55 |

| | | |
|---|----|--------|
| <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 | 90 |
| | A | 4.5 |
| <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 | 90 |
| | A | 90 |
| <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 | 90 |
| | A | 90 |
| <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 | 90 |
| | A | 90 |
| <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 | 90 |
| | A | 90 |
| Service power | | |
| <ul style="list-style-type: none"> at AC-2 / at 400 V / rated value | kW | 30 |
| <ul style="list-style-type: none"> at AC-3 / at 400 V / rated value | kW | 30 |
| <ul style="list-style-type: none"> at AC-4 / at 400 V / rated value | W | 30,000 |

| Control circuit: | | |
|---|-----|-------------|
| Voltage type / of control feed voltage | | AC |
| Operating range factor control supply voltage rated value / of the magnet coil | | |
| <ul style="list-style-type: none"> at 50 Hz for AC | | 0.8 ... 1.1 |
| Apparent pull-in power / of the solenoid / for AC | V·A | 218 |
| Apparent holding power / of the solenoid / for AC | V·A | 21 |
| Inductive power factor / with the pull-in power of the coil | | 0.61 |
| Inductive power factor / with the pull-in power of the coil | | 0.26 |

| 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 | fuse gL/gG: 10 A |
| | <ul style="list-style-type: none"> • for short-circuit protection of the main circuit | fuse gL/gG: 250 A |
| | <ul style="list-style-type: none"> • with type of assignment 1 / required • at type of coordination 2 / required | fuse gL/gG: 125 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 | 188 |
| 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

Shipping Approval

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ABS



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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:

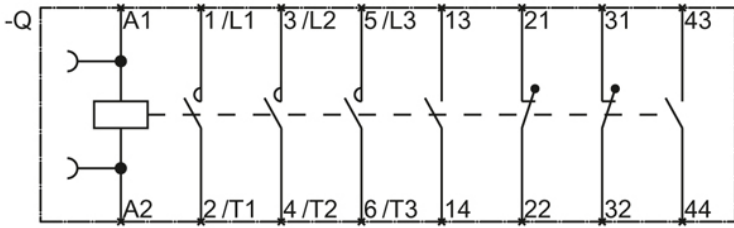
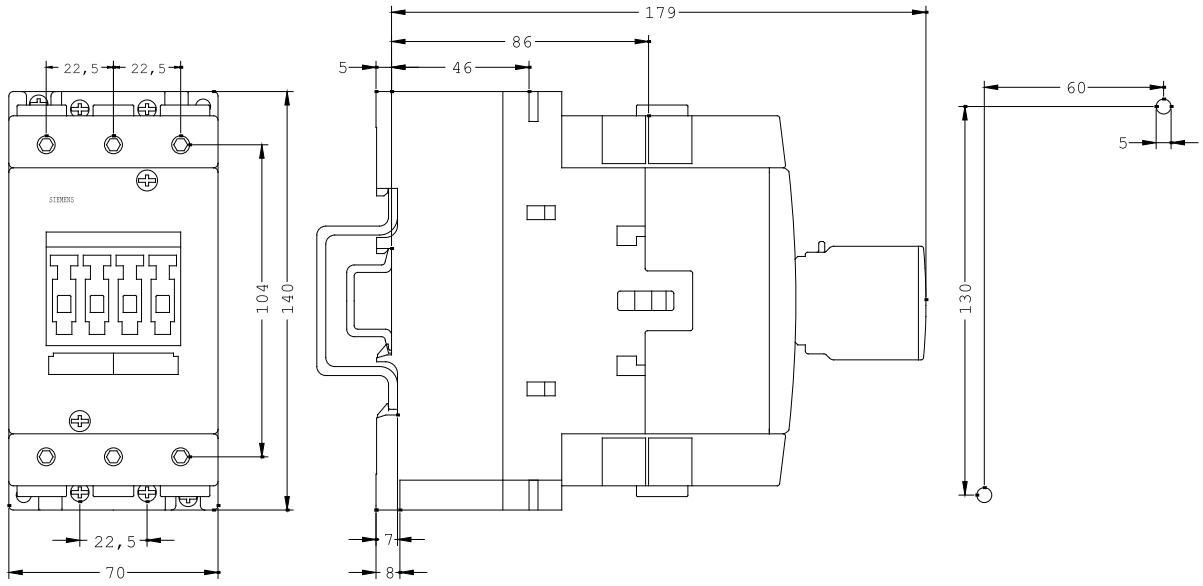
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1044-1AH04/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1044-1AH04



last change:

Aug 4, 2014