



CONTACTOR, AC-3 4 KW/400 V,  
1 NC AC 220V 50/60HZ, 3-POLE, SIZE S00,  
SCREW CONNECTION

| General technical data:                                                               |    |             |
|---------------------------------------------------------------------------------------|----|-------------|
| product brand name                                                                    |    | SIRIUS      |
| Size of the contactor                                                                 |    | S00         |
| 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                                         |    |             |
| • of the contactor / typical                                                          |    | 30,000,000  |
| • of the contactor with added auxiliary switch block / typical                        |    | 10,000,000  |
| • 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                                                                     |    |             |
| • at AC-1 / at 400 V                                                                  |    |             |
| • at 40 °C ambient temperature / rated value                                          | A  | 22          |
| • at AC-3 / at 400 V / rated value                                                    | A  | 9           |
| • at AC-4 / at 400 V / rated value                                                    | A  | 8.5         |

|                                                      |    |       |
|------------------------------------------------------|----|-------|
| • with 1 current path / at DC-1                      |    |       |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             | A  | 2.1   |
| • with 2 current paths in series / at DC-1           |    |       |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             | A  | 12    |
| • with 3 current paths in series / at DC-1           |    |       |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             | A  | 20    |
| • with 1 current path / at DC-3 / at DC-5            |    |       |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             | A  | 0.15  |
| • with 2 current paths in series / at DC-3 / at DC-5 |    |       |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             | A  | 0.35  |
| • with 3 current paths in series / at DC-3 / at DC-5 |    |       |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             | A  | 20    |
| <b>Service power</b>                                 |    |       |
| • at AC-2 / at 400 V / rated value                   | kW | 4     |
| • at AC-3 / at 400 V / rated value                   | kW | 4     |
| • at AC-4 / at 400 V / rated value                   | W  | 4,000 |

| Control circuit:                                                                      |     |              |
|---------------------------------------------------------------------------------------|-----|--------------|
| <b>Voltage type / of control feed voltage</b>                                         |     | AC           |
| <b>Operating range factor control supply voltage rated value / of the magnet coil</b> |     |              |
| • at 50 Hz                                                                            |     |              |
| • for AC                                                                              |     | 0.8 ... 1.1  |
| • at 60 Hz                                                                            |     |              |
| • for AC                                                                              |     | 0.85 ... 1.1 |
| <b>Apparent pull-in power / of the solenoid / for AC</b>                              | V·A | 27           |
| <b>Apparent holding power / of the solenoid / for AC</b>                              | V·A | 4.4          |
| <b>Inductive power factor / with the pull-in power of the coil</b>                    |     | 0.8          |
| <b>Inductive power factor / with the pull-in power of the coil</b>                    |     | 0.27         |

| Auxiliary circuit:                                                              |  |                                                 |
|---------------------------------------------------------------------------------|--|-------------------------------------------------|
| <b>Contact reliability / of the auxiliary contacts</b>                          |  | 1 faulty switching per 100 million (17 V, 1 mA) |
| <b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b> |  | 1                                               |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> |  | 0                                               |

## Short-circuit:

### Design of the fuse link

- for short-circuit protection of the auxiliary switch / required
- for short-circuit protection of the main circuit
  - with type of assignment 1 / required
  - at type of coordination 2 / required

fuse gL/gG: 10 A

fuse gL/gG: 35 A

fuse gL/gG: 20 A

## Installation/mounting/dimensions:

### Mounting type

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

### series installation

Yes

### Width

mm

45

### Height

mm

57.5

### Depth

mm

72

### Distance, to be maintained, to earthed part / sideways

mm

6

## Connection type:

### Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

### Type of the connectable conductor cross-section

- for main contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for main contacts
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for auxiliary contacts

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), max. 2x (0.75 ... 4 mm<sup>2</sup>)

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

2x (20 ... 16), 2x (18 ... 14), 1x 12

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2x (20 ... 16), 2x (18 ... 14), 1x 12

## Certificates/approvals:

## General Product Approval

## Functional Safety / Safety of Machinery



CCC



CSA



UL



UR

[Type Examination](#)

## Declaration of Conformity

## Test Certificates



EG-Konf.

[Special Test  
Certificate](#)

## Shipping Approval



ABS



DNV



GL



LRS



PRS



RINA

## Shipping Approval

## other



RMRS

[Confirmation](#)

[other](#)

[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:

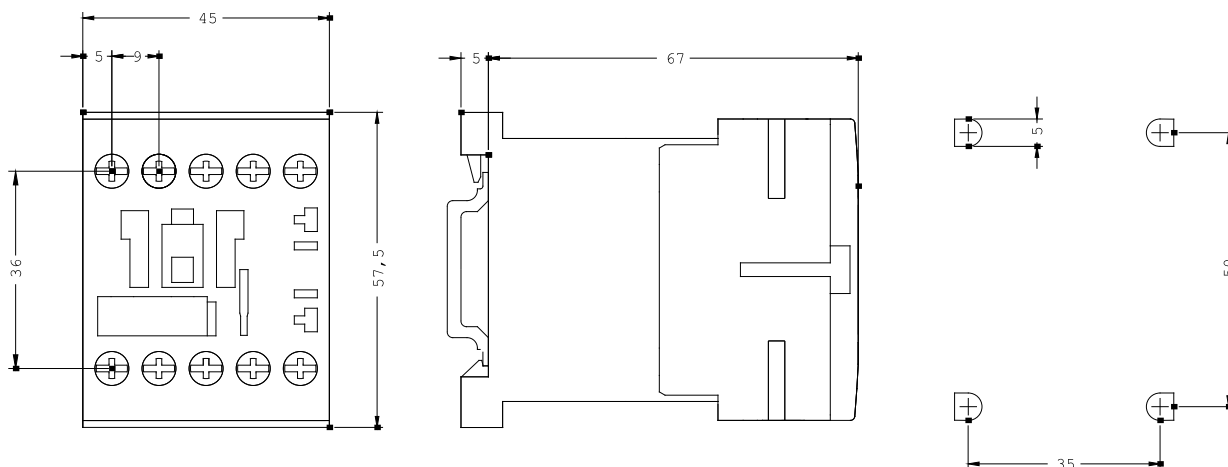
<http://www.siemens.com/cax>

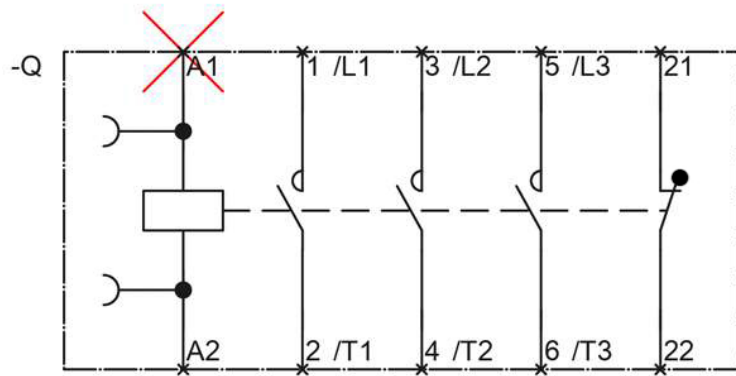
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1016-1AN22/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1016-1AN22](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1016-1AN22)





last change:

Aug 4, 2014