

CONTACTOR, AC-1, 14.5KW/400V,  
AC-1 22 A, AC 24 V, 50/60 HZ, 4-POLE,  
4 NO, SIZE S00, SCREW CONNECTION

### General technical data:

|                                                                                       |    |             |
|---------------------------------------------------------------------------------------|----|-------------|
| product brand name                                                                    |    | SIRIUS      |
| Size of the contactor                                                                 |    | S00         |
| 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                                         |    |             |
| • 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            |   | 4    |
| 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 | 12   |
| • with 1 current path / at DC-1                      |   |      |
| • at 24 V / rated value                              | A | 22   |
| • at 110 V / rated value                             | A | 2.1  |
| • with 2 current paths in series / at DC-1           |   |      |
| • at 24 V / rated value                              | A | 22   |
| • at 110 V / rated value                             | A | 12   |
| • with 3 current paths in series / at DC-1           |   |      |
| • at 24 V / rated value                              | A | 22   |
| • at 110 V / rated value                             | A | 22   |
| • 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 | 5.5  |
| • at AC-3 / at 400 V / rated value                   | kW | 5.5  |

| 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                                                                            |     | 0.8 ... 1.1  |
| • for AC                                                                              |     |              |
| • at 60 Hz                                                                            |     | 0.85 ... 1.1 |
| • for AC                                                                              |     |              |
| <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> |  | 0                                               |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> |  | 0                                               |

| Short-circuit:                                                    |  |                  |
|-------------------------------------------------------------------|--|------------------|
| <b>Design of the fuse link</b>                                    |  |                  |
| • for short-circuit protection of the auxiliary switch / required |  | fuse gL/gG: 10 A |
| • for short-circuit protection of the main circuit                |  |                  |
| • with type of assignment 1 / required                            |  | fuse gL/gG: 35 A |
| • at type of coordination 2 / required                            |  | fuse gL/gG: 20 A |

| Installation/mounting/dimensions: |    |                                                                                        |
|-----------------------------------|----|----------------------------------------------------------------------------------------|
| <b>Mounting type</b>              |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <b>series installation</b>        |    | Yes                                                                                    |
| <b>Width</b>                      | mm | 45                                                                                     |
| <b>Height</b>                     | mm | 57.5                                                                                   |
| <b>Depth</b>                      | 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



GL



LRS



RINA



RMRS

#### other

[Confirmation](#)

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Confirmations](#)

### Further information:

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

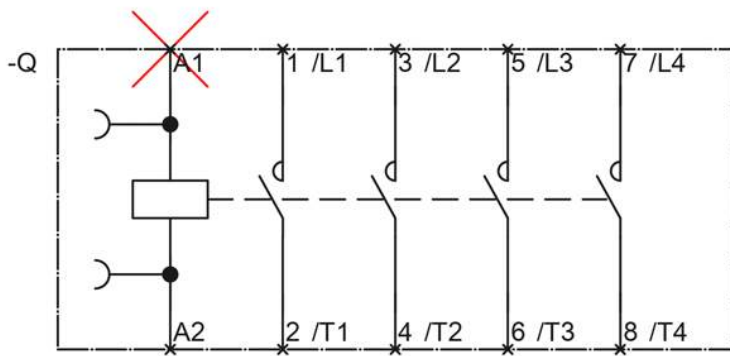
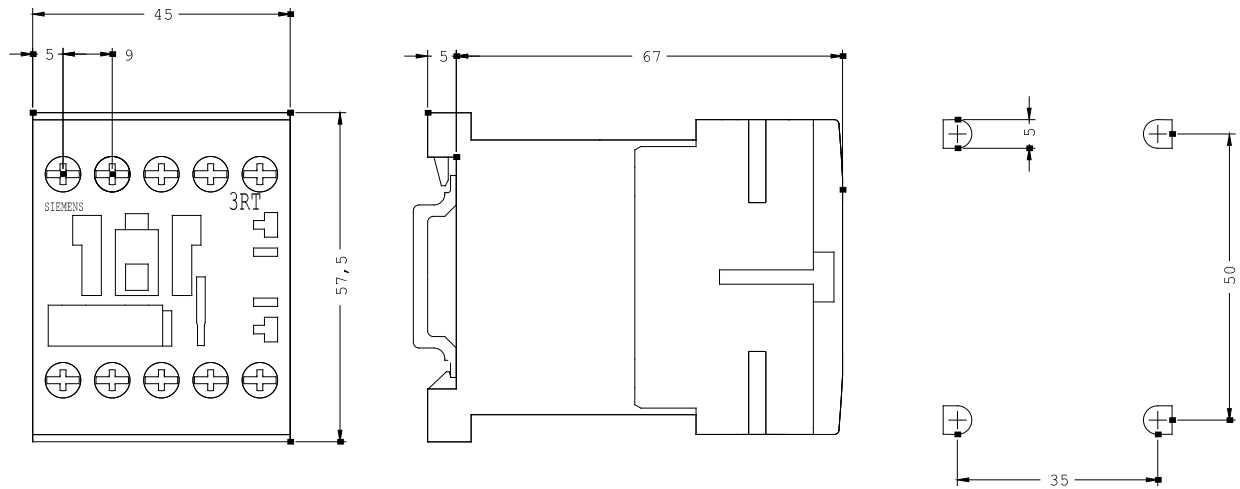
<http://www.siemens.com/industrial-controls/catalogs>

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/3RT1317-1AB00/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1317-1AB00](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1317-1AB00)



last change:

Aug 4, 2014