

CONTACTOR, AC-1, 14,5KW/400V,  
AC-1 22 A, DC 125 V 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  |

|                                                                                       |   |              |
|---------------------------------------------------------------------------------------|---|--------------|
| <b>Control circuit:</b>                                                               |   |              |
| <b>Voltage type / of control feed voltage</b>                                         |   | DC           |
| <b>Operating range factor control supply voltage rated value / of the magnet coil</b> |   |              |
| • for DC                                                                              |   | 0.85 ... 1.1 |
| <b>Pull-in power / of the solenoid / for DC</b>                                       | W | 3.3          |
| <b>Holding power / of the solenoid / for DC</b>                                       | W | 3.3          |

|                                                                                 |  |                                                 |
|---------------------------------------------------------------------------------|--|-------------------------------------------------|
| <b>Auxiliary circuit:</b>                                                       |  |                                                 |
| <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                                               |

|                                                                   |  |                  |
|-------------------------------------------------------------------|--|------------------|
| <b>Short-circuit:</b>                                             |  |                  |
| <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 |

|                                                               |    |                                                                                        |
|---------------------------------------------------------------|----|----------------------------------------------------------------------------------------|
| <b>Installation/mounting/dimensions:</b>                      |    |                                                                                        |
| <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                                                                                     |
| <b>Distance, to be maintained, to earthed part / sideways</b> | mm | 6                                                                                      |

|                                            |  |                      |
|--------------------------------------------|--|----------------------|
| <b>Connection type:</b>                    |  |                      |
| <b>Design of the electrical connection</b> |  |                      |
| • for main current circuit                 |  | screw-type terminals |

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

[other](#)

[Environmental  
Confirmations](#)

#### Further information:

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

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

##### Industry Mall (Online ordering system)

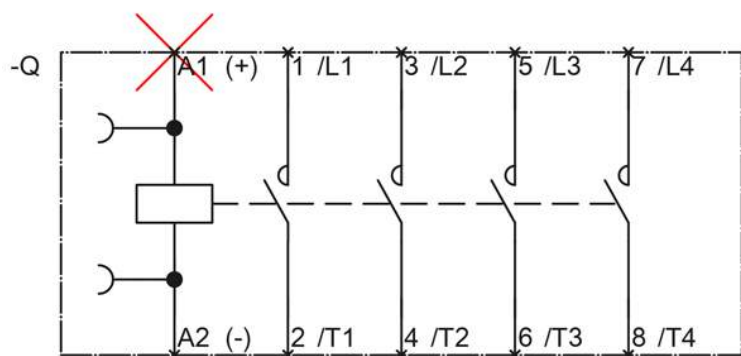
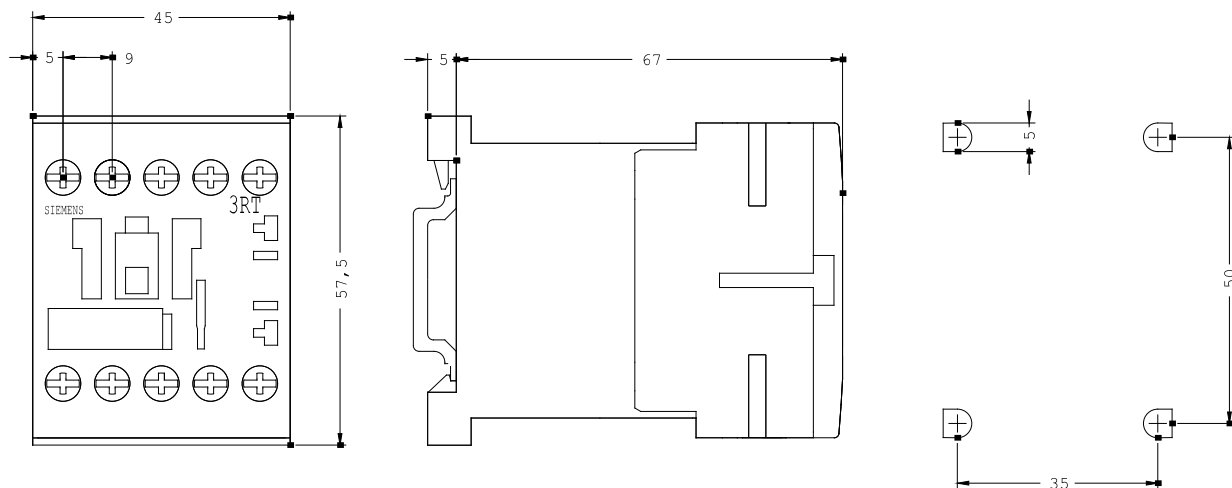
<http://www.siemens.com/industrial-controls/mall>

##### Cax online generator:

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

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

<http://support.automation.siemens.com/WW/view/en/3RT1317-1BG40/all>



last change:

Jul 28, 2014