



CONTACTOR 3-PH 5.5 KW/400 V, 1 NC,  
24 V AC 60 HZ 3-POLE, SIZE S00,  
SCREW CONNECTION

## General technical data:

|   |    |             |
|---|----|-------------|
| <b>product brand name</b>   |    | SIRIUS      |
| <b>Size of the contactor</b>  |    | S00         |
| <b>Protection class IP / on the front</b>   |    | IP20        |
| <b>Degree of pollution</b>  |    | 3           |
| <b>Installation altitude / at a height over sea level / maximum</b>                   | m  | 2,000       |
| <b>Ambient temperature / during operating</b>   | °C | -25 ... +60 |
| <b>Mechanical operating cycles as operating time</b>                                  |    |             |
| • 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:

|  |   |     |
|--|---|-----|
| <b>Number of NC contacts / for main contacts</b> |   | 0   |
| <b>Number of NO contacts / for main contacts</b> |   | 3   |
| <b>Operating current</b>                         |   |     |
| • 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  |
| • at AC-4 / at 400 V / rated value               | A | 8.5 |

|  |    |       |
|--|----|-------|
| • with 1 current path / at DC-1                      | A  | 20    |
| • at 24 V / rated value                              | A  | 2.1   |
| • at 110 V / rated value                             |    |       |
| • with 2 current paths in series / at DC-1           | A  | 20    |
| • at 24 V / rated value                              | A  | 12    |
| • at 110 V / rated value                             |    |       |
| • with 3 current paths in series / at DC-1           | A  | 20    |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             |    |       |
| • with 1 current path / at DC-3 / at DC-5            | A  | 20    |
| • at 24 V / rated value                              | A  | 0.15  |
| • at 110 V / rated value                             |    |       |
| • with 2 current paths in series / at DC-3 / at DC-5 | A  | 20    |
| • at 24 V / rated value                              | A  | 0.35  |
| • at 110 V / rated value                             |    |       |
| • with 3 current paths in series / at DC-3 / at DC-5 | A  | 20    |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             |    |       |
| <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   |
| • 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 60 Hz  |     |             |
| • for AC  |     | 0.8 ... 1.1 |
| <b>Apparent pull-in power / of the solenoid / for AC</b>                              | V·A | 31.7        |
| <b>Apparent holding power / of the solenoid / for AC</b>                              | V·A | 5.1         |
| <b>Inductive power factor / with the pull-in power of the coil</b>                    |     | 0.77        |
| <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:

|                                |  |                  |
|--------------------------------|--|------------------|
| <b>Design of the fuse link</b> | <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch / required</li> </ul>                      | fuse gL/gG: 10 A |
|                                | <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit</li> </ul>                                     | fuse gL/gG: 35 A |
|                                | <ul style="list-style-type: none"> <li>• with type of assignment 1 / required</li> <li>• at type of coordination 2 / required</li> </ul> | 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   |
| <b>Distance, to be maintained, to earthed part / sideways</b> | mm | 6  |

### Connection type:

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

### Certificates/approvals:

|                                 |  |                                  |                          |
|---------------------------------|--|----------------------------------|--------------------------|
| <b>General Product Approval</b> | <b>Functional Safety / Safety of Machinery</b> | <b>Declaration of Conformity</b> | <b>Test Certificates</b> |
|---------------------------------|--|----------------------------------|--------------------------|



[Type Examination](#)



[Special Test Certificate](#)

**Shipping Approval**



**Shipping Approval**

**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:**

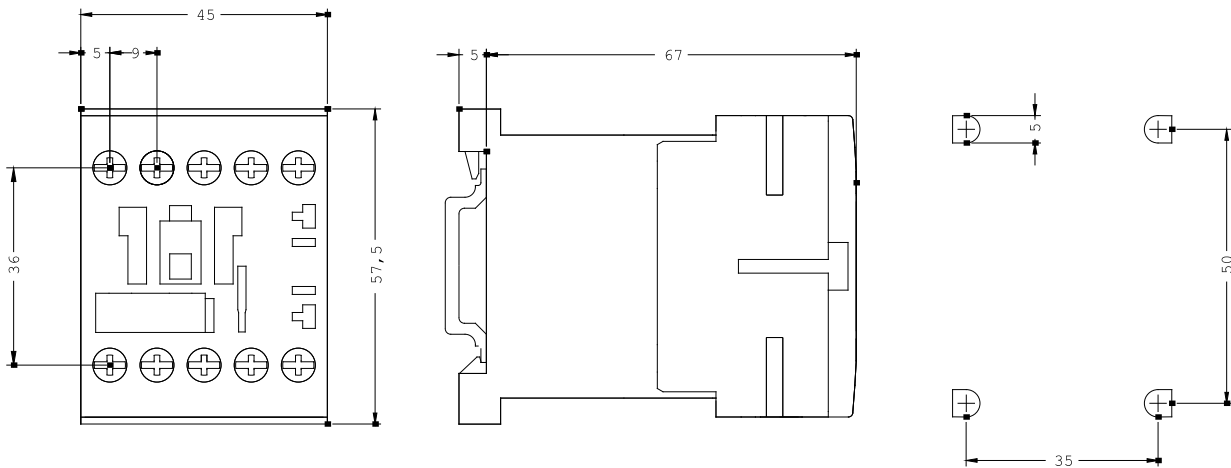
<http://www.siemens.com/cax>

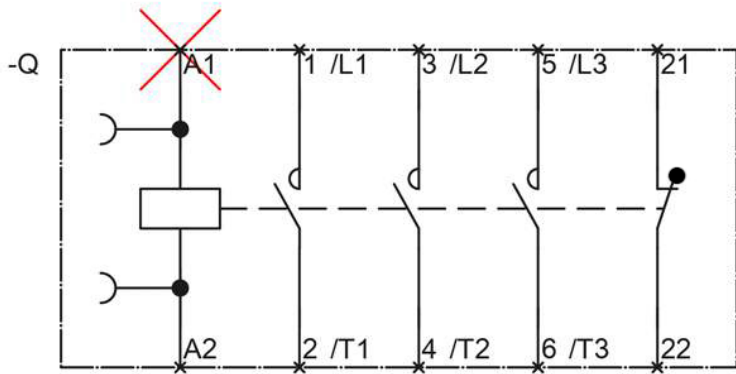
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RT1017-1AC12/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1017-1AC12](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1017-1AC12)





last change:

Aug 4, 2014