



CONTACTOR, AC-3 5,5 KW/400 V,  
AC-1 22 A, 4 POLE, 2 NO + 2 NC,  
MOD. S00,  
CAGE CLAMP CONNECTION AC 400V 50HZ/60HZ,  
440V 60HZ

| General technical data:                                                               |    |             |
|---------------------------------------------------------------------------------------|----|-------------|
| product brand name                                                                    |    | SIRIUS      |
| Size of the contactor                                                                 |    | S00         |
| Protection class IP / on the front                                                    |    | IP20        |
| Protection against electrical shock                                                   |    | finger-safe |
| Degree of pollution                                                                   |    | 3           |
| Installation altitude / at a height over sea level / maximum                          | m  | 2,000       |
| Ambient temperature                                                                   |    |             |
| • during storage                                                                      | °C | -55 ... +80 |
| • during operating                                                                    | °C | -25 ... +60 |
| Insulation voltage / rated value                                                      | V  | 690         |
| 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                                             |    | 2           |
| Number of NO contacts / for main contacts                                             |    | 2           |
| Operational current / at AC-1 / up to 690 V                                           |    |             |

|                                                      |    |       |
|------------------------------------------------------|----|-------|
| • at 40 °C ambient temperature / rated value         | A  | 22    |
| • at 60 °C ambient temperature / rated value         | A  | 20    |
| <b>Operating current / at AC-2 / at AC-3</b>         |    |       |
| • at 400 V                                           |    |       |
| • per NO contact / rated value                       | A  | 12    |
| • per NC contact / rated value                       | A  | 12    |
| <b>Operating current</b>                             |    |       |
| • with 1 current path / at DC-1                      |    |       |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             | A  | 2.1   |
| • at 220 V / rated value                             | A  | 0.8   |
| • at 440 V / rated value                             | A  | 0.6   |
| • with 2 current paths in series / at DC-1           |    |       |
| • at 24 V / rated value                              | A  | 20    |
| • at 110 V / rated value                             | A  | 12    |
| • at 220 V / rated value                             | A  | 1.6   |
| • at 440 V / rated value                             | A  | 0.8   |
| <b>Operating current</b>                             |    |       |
| • with 1 current path / at DC-3 / at DC-5            |    |       |
| • at 24 V                                            |    |       |
| • per NO contact / rated value                       | A  | 20    |
| • per NC contact / rated value                       | A  | 20    |
| • at 110 V                                           |    |       |
| • per NO contact / rated value                       | A  | 0.15  |
| • per NC contact / rated value                       | A  | 0.075 |
| • at 220 V                                           |    |       |
| • per NO contact / rated value                       | A  | 0.75  |
| • per NC contact / rated value                       | A  | 0.375 |
| • with 2 current paths in series / at DC-3 / at DC-5 |    |       |
| • at 24 V                                            |    |       |
| • per NO contact / rated value                       | A  | 20    |
| • per NC contact / rated value                       | A  | 20    |
| • at 110 V                                           |    |       |
| • per NO contact / rated value                       | A  | 0.35  |
| • per NC contact / rated value                       | A  | 0.175 |
| <b>Operating performance</b>                         |    |       |
| • at AC-1                                            |    |       |
| • at 230 V / rated value                             | kW | 7.5   |
| • at 400 V / rated value                             | kW | 13    |
| • at AC-2 / at AC-3                                  |    |       |

|                                                                                                                                                                                                                                                                                                                                      |     |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| <ul style="list-style-type: none"> <li>• at 230 V <ul style="list-style-type: none"> <li>• per NO contact / rated value</li> <li>• per NC contact / rated value</li> </ul> </li> <li>• at 400 V <ul style="list-style-type: none"> <li>• per NO contact / rated value</li> <li>• per NC contact / rated value</li> </ul> </li> </ul> | kW  | 3     |
|                                                                                                                                                                                                                                                                                                                                      | kW  | 3     |
|                                                                                                                                                                                                                                                                                                                                      | kW  | 5.5   |
|                                                                                                                                                                                                                                                                                                                                      | kW  | 5.5   |
| <b>Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor</b>                                                                                                                                                                                                                                   | W   | 0.7   |
| <b>Frequency of operation</b>                                                                                                                                                                                                                                                                                                        |     |       |
| <ul style="list-style-type: none"> <li>• with AC-1 / maximum</li> </ul>                                                                                                                                                                                                                                                              | 1/h | 1,000 |
| <ul style="list-style-type: none"> <li>• at AC-2 / at AC-3 / maximum</li> </ul>                                                                                                                                                                                                                                                      | 1/h | 750   |

| Control circuit/ Control:                                                                                                            |          |                             |
|--------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------|
| <b>Voltage type / of control feed voltage</b>                                                                                        |          | AC                          |
| <b>Control supply voltage</b>                                                                                                        |          |                             |
| <ul style="list-style-type: none"> <li>• at 50 Hz / at AC / rated value</li> </ul>                                                   | V        | 400                         |
| <ul style="list-style-type: none"> <li>• at 60 Hz / at AC</li> <li>• rated value</li> </ul>                                          | V        | 400 ... 440                 |
| <b>operating range factor control supply voltage rated value / of the magnet coil</b>                                                |          |                             |
| <ul style="list-style-type: none"> <li>• at 50 Hz / for AC</li> <li>• at 60 Hz / for AC</li> </ul>                                   |          | 0.8 ... 1.1<br>0.85 ... 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</b>                                                                                                        |          |                             |
| <ul style="list-style-type: none"> <li>• with the pull-in power of the coil</li> <li>• with the pull-in power of the coil</li> </ul> |          | 0.77<br>0.27                |
| <b>Closing delay</b>                                                                                                                 |          |                             |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                           | ms<br>ms | 8 ... 35<br>25 ... 100      |
| <b>Opening delay</b>                                                                                                                 |          |                             |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>                                                           | ms<br>ms | 4 ... 30<br>7 ... 10        |
| <b>Arcing time</b>                                                                                                                   | ms       | 10 ... 15                   |
| <b>Residual current / of electronics / for control with signal &lt;0&gt;</b>                                                         |          |                             |
| <ul style="list-style-type: none"> <li>• at 230 V / with AC / maximum permissible</li> </ul>                                         | A        | 0.0030                      |

| 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   |
| <b>Operating current</b>                                                        |   |     |
| • at AC-12 / maximum                                                            | A | 10  |
| • at AC-15 / at 230 V / rated value                                             | A | 6   |
| • at AC-15 / at 400 V / rated value                                             | A | 3   |
| <b>Operating current / at DC-12</b>                                             |   |     |
| • at 60 V / rated value                                                         | A | 6   |
| • at 110 V / rated value                                                        | A | 3   |
| • at 220 V / rated value                                                        | A | 1   |
| <b>Operating current / at DC-13</b>                                             |   |     |
| • at 24 V / rated value                                                         | A | 10  |
| • at 60 V / rated value                                                         | A | 2   |
| • at 110 V / rated value                                                        | A | 1   |
| • at 220 V / rated value                                                        | A | 0.3 |

#### 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 position

with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back

##### Mounting type

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

##### Mounting type / series installation

Yes

##### Width

mm

45

##### Height

mm

60

##### Depth

mm

72

#### Connections/ terminals:

##### Design of the electrical connection

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

Cage Clamp terminals

Cage Clamp terminals

##### Type of the connectable conductor cross-section

- for main contacts
  - solid
  - finely stranded

2x (0.25 ... 2.5 mm²)

- with conductor end processing
- without conductor final cutting
- for AWG conductors / for main contacts
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
    - without conductor final cutting
- for AWG conductors / for auxiliary contacts

2x (0.25 ... 1.5 mm<sup>2</sup>)  
 2x (0.25 ... 2.5 mm<sup>2</sup>)  
 2x (24 ... 14)  
  
 2x (0.25 ... 2.5 mm<sup>2</sup>)  
  
 2x (0.25 ... 1.5 mm<sup>2</sup>)  
 2x (0.25 ... 2.5 mm<sup>2</sup>)  
 2x (24 ... 14)

#### Certificates/ approvals:

##### General Product Approval



[Type Examination](#)



##### Test Certificates

[Special Test Certificate](#)

##### 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/industrymall>

##### Cax online generator

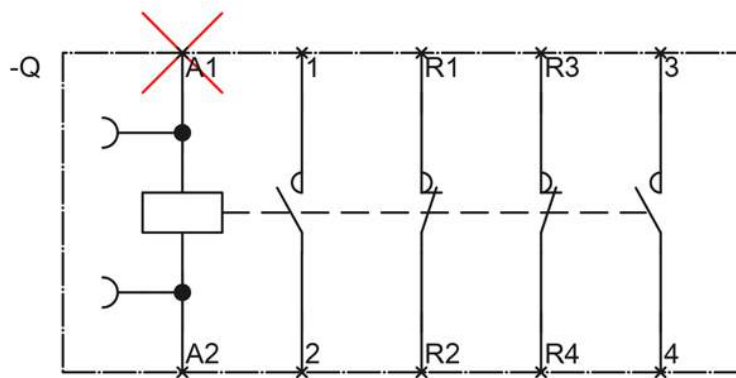
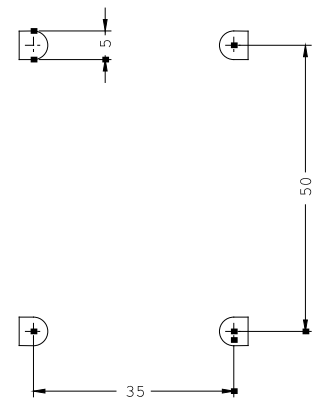
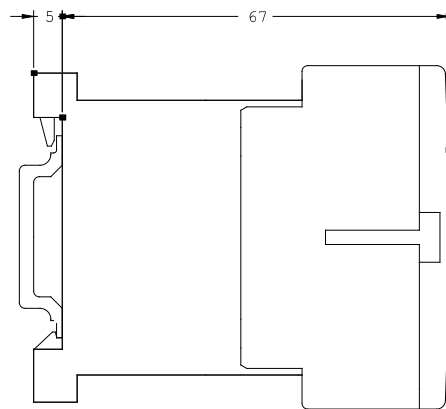
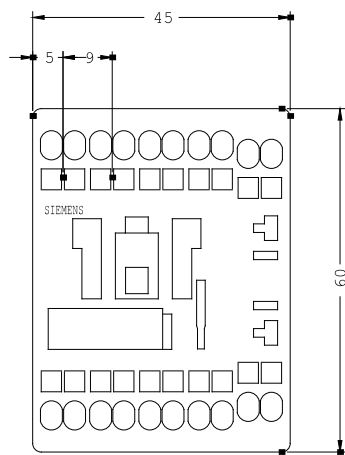
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1517-2AR60/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1517-2AR60](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1517-2AR60)



last change:

Jul 28, 2014