



CONTACTOR,  
250KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 500-  
550V AUXILIARY CONTACTS 2NO+2NC 3-POLE,  
SIZE S12 BAR CONNECTIONS CONVENT. OPERATING  
MECHANISM CAGE CLAMP TERMINAL

### General technical data:

|   |    |             |
|---|----|-------------|
| <b>product brand name</b>   |    | SIRIUS      |
| <b>Size of the contactor</b>  |    | S12         |
| <b>Protection class IP / on the front</b>   |    | IP00        |
| <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>  |    |             |
| <ul style="list-style-type: none"> <li>• of the contactor / typical</li> </ul>  |    | 10,000,000  |
| <ul style="list-style-type: none"> <li>• of the contactor with added auxiliary switch block / typical</li> </ul>                        |    | 10,000,000  |
| <ul style="list-style-type: none"> <li>• of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul> |    | 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>   |   |     |
| <ul style="list-style-type: none"> <li>• at AC-1 / at 400 V <ul style="list-style-type: none"> <li>• at 40 °C ambient temperature / rated value</li> </ul> </li> </ul> | A | 610 |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>   | A | 500 |
| <ul style="list-style-type: none"> <li>• at AC-4 / at 400 V / rated value</li> </ul>   | A | 430 |

|  |    |         |
|--|----|---------|
| • with 1 current path / at DC-1                      | A  | 400     |
| • at 24 V / rated value                              | A  | 33      |
| • at 110 V / rated value                             |    |         |
| • with 2 current paths in series / at DC-1           | A  | 400     |
| • at 24 V / rated value                              | A  | 400     |
| • at 110 V / rated value                             |    |         |
| • with 3 current paths in series / at DC-1           | A  | 400     |
| • at 24 V / rated value                              | A  | 400     |
| • at 110 V / rated value                             |    |         |
| • with 1 current path / at DC-3 / at DC-5            | A  | 400     |
| • at 24 V / rated value                              | A  | 3       |
| • at 110 V / rated value                             |    |         |
| • with 2 current paths in series / at DC-3 / at DC-5 | A  | 400     |
| • at 24 V / rated value                              | A  | 400     |
| • at 110 V / rated value                             |    |         |
| • with 3 current paths in series / at DC-3 / at DC-5 | A  | 400     |
| • at 24 V / rated value                              | A  | 400     |
| • at 110 V / rated value                             |    |         |
| <b>Service power</b>                                 |    |         |
| • at AC-2 / at 400 V / rated value                   | kW | 291     |
| • at AC-3 / at 400 V / rated value                   | kW | 291     |
| • at AC-4 / at 400 V / rated value                   | W  | 250,000 |

| Control circuit:  |     |               |
|---|-----|---------------|
| <b>Design of the surge suppressor</b>   |     | with varistor |
| <b>Voltage type / of control feed voltage</b>   |     | AC/DC         |
| <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  |     | 0.8 ... 1.1   |
| • for DC  |     | 0.8 ... 1.1   |
| <b>Apparent pull-in power / of the solenoid / for AC</b>                              | V·A | 830           |
| <b>Apparent holding power / of the solenoid / for AC</b>                              | V·A | 9.2           |
| <b>Inductive power factor / with the pull-in power of the coil</b>                    |     | 0.9           |
| <b>Inductive power factor / with the pull-in power of the coil</b>                    |     | 0.9           |
| <b>Pull-in power / of the solenoid / for DC</b>                                       | W   | 920           |
| <b>Holding power / of the solenoid / for DC</b>                                       | W   | 10            |

#### Auxiliary circuit:

|   |  |   |
|---|--|---|
| <b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b> |  | 2 |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> |  | 2 |

#### 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: 630 A  
 fuse gL/gG: 500 A

#### Installation/mounting/dimensions:

|   |    |              |
|---|----|--------------|
| <b>Mounting type</b>  |    | screw fixing |
| <b>series installation</b>                                    |    | Yes          |
| <b>Width</b>  | mm | 160          |
| <b>Height</b>   | mm | 214          |
| <b>Depth</b>  | mm | 225          |
| <b>Distance, to be maintained, to earthed part / sideways</b> | mm | 10           |

#### Connection type:

##### 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 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

2/0 ... 500 kcmil  
 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:

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



CCC



CSA



UL

[Type Examination](#)



EG-Konf.

**Test Certificates**

[Special Test Certificate](#)

**Shipping Approval**



ABS



GL



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:**

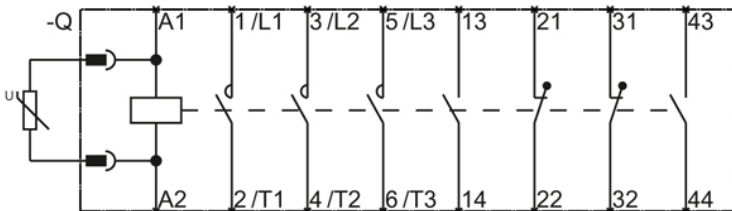
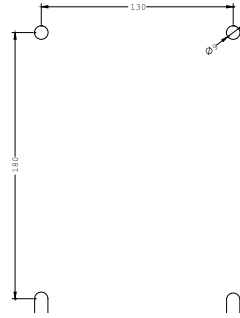
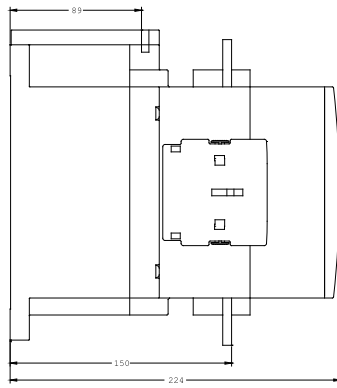
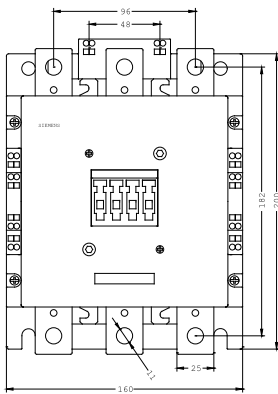
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1076-2AS36/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1076-2AS36](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1076-2AS36)



last change:

Jul 28, 2014