

CONTACTOR, 55KW/400V/AC-3,  
AC(40...60HZ)/DC OPERATION UC 23...26V AUX.  
CONTACTS 2NO+2NC,  
3-POLE,  
SIZE S6 BAR CONNECTIONS CONVENTIONAL  
OPERATING MECHAN. SCREW TERMINAL

### General technical data:

|                                                                                       |    |             |
|---------------------------------------------------------------------------------------|----|-------------|
| product brand name                                                                    |    | SIRIUS      |
| Size of the contactor                                                                 |    | S6          |
| 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                                                          |    | 10,000,000  |
| • 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    |   | 3   |
| Operating current                            |   |     |
| • at AC-1 / at 400 V                         |   |     |
| • at 40 °C ambient temperature / rated value | A | 160 |
| • at 60 °C ambient temperature / rated value | A | 140 |
| • at AC-3 / at 400 V / rated value           | A | 115 |
| • at AC-4 / at 400 V / rated value           | A | 97  |
| • with 1 current path / at DC-1              |   |     |
| • at 24 V / rated value                      | A | 160 |
| • at 110 V / rated value                     | A | 18  |
| • with 2 current paths in series / at DC-1   |   |     |
| • at 24 V / rated value                      | A | 160 |
| • at 110 V / rated value                     | A | 160 |
| • with 3 current paths in series / at DC-1   |   |     |
| • at 24 V / rated value                      | A | 160 |

|                                                      |    |        |
|------------------------------------------------------|----|--------|
| • at 110 V / rated value                             | A  | 160    |
| • with 1 current path / at DC-3 / at DC-5            |    |        |
| • at 24 V / rated value                              | A  | 160    |
| • at 110 V / rated value                             | A  | 2.5    |
| • with 2 current paths in series / at DC-3 / at DC-5 |    |        |
| • at 24 V / rated value                              | A  | 160    |
| • at 110 V / rated value                             | A  | 160    |
| • with 3 current paths in series / at DC-3 / at DC-5 |    |        |
| • at 24 V / rated value                              | A  | 160    |
| • at 110 V / rated value                             | A  | 160    |
| <b>Service power</b>                                 |    |        |
| • at AC-2 / at 400 V / rated value                   | kW | 64     |
| • at AC-3 / at 400 V / rated value                   | kW | 64     |
| • at AC-4 / at 400 V / rated value                   | W  | 55,000 |
| <b>Active power loss / per conductor / typical</b>   | W  | 7      |

|                                                                                       |     |               |
|---------------------------------------------------------------------------------------|-----|---------------|
| <b>Control circuit:</b>                                                               |     |               |
| <b>Design of the surge suppressor</b>                                                 |     | with varistor |
| <b>Type of voltage / of the controlled supply voltage</b>                             |     | AC/DC         |
| <b>Control supply voltage / 1</b>                                                     |     |               |
| • for DC                                                                              |     |               |
| • initial rated value                                                                 | V   | 23            |
| • final rated value                                                                   | V   | 26            |
| • at 50 Hz / for AC                                                                   |     |               |
| • initial rated value                                                                 | V   | 23            |
| • final rated value                                                                   | V   | 26            |
| • at 60 Hz / for AC                                                                   |     |               |
| • initial rated value                                                                 | V   | 23            |
| • final rated value                                                                   | V   | 26            |
| <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 | 300           |
| <b>Apparent holding power / of the solenoid / for AC</b>                              | V·A | 5.8           |
| <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>                    |     | 0.8           |

|                                                 |   |     |
|-------------------------------------------------|---|-----|
| <b>Pull-in power / of the solenoid / for DC</b> | W | 360 |
| <b>Holding power / of the solenoid / for DC</b> | W | 5.2 |

#### 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> |   | 2                                               |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> |   | 2                                               |
| <b>Operating current / of the auxiliary contacts</b>                            |   |                                                 |
| • at AC-12 / maximum                                                            | A | 10                                              |
| • at AC-15                                                                      |   |                                                 |
| • at 230 V                                                                      | A | 6                                               |
| • at 400 V                                                                      | A | 3                                               |
| • at DC-12                                                                      |   |                                                 |
| • at 60 V                                                                       | A | 6                                               |
| • at 110 V                                                                      | A | 3                                               |
| • at 220 V                                                                      | A | 1                                               |
| • at DC-13                                                                      |   |                                                 |
| • at 24 V                                                                       | A | 10                                              |
| • at 60 V                                                                       | A | 2                                               |
| • at 110 V                                                                      | A | 1                                               |
| • at 220 V                                                                      | A | 0.3                                             |

#### 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: 355 A |
| • at type of coordination 2 / required                            |  | fuse gL/gG: 315 A |

#### Installation/mounting/dimensions:

|                                                               |    |              |
|---------------------------------------------------------------|----|--------------|
| <b>Type of mounting</b>                                       |    | screw fixing |
| <b>series installation</b>                                    |    | Yes          |
| <b>Width</b>                                                  | mm | 120          |
| <b>Height</b>                                                 | mm | 172          |
| <b>Depth</b>                                                  | mm | 170          |
| <b>Distance, to be maintained, to earthed part / sideways</b> | mm | 10           |

#### Connection type:

|                                            |  |                      |
|--------------------------------------------|--|----------------------|
| <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 AWG conductors / for main contacts</li> <li>• for auxiliary contacts <ul style="list-style-type: none"> <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> | 4 ... 250 kcmil<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                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |    |  |  | <a href="#">Type Examination</a>                                                    |
| CCC                                                                               | CSA                                                                               | GOST                                                                                | KETI                                                                              | UL                                                                                  |                                                                                     |
| Declaration of Conformity                                                         | Test Certificates                                                                 |                                                                                     | Shipping Approval                                                                 |                                                                                     |                                                                                     |
|  | <a href="#">other</a>                                                             | <a href="#">Special Test Certificate</a>                                            |  |  |  |
| EG-Konf.                                                                          |                                                                                   |                                                                                     | ABS                                                                               | DNV                                                                                 | GL                                                                                  |
| other                                                                             |                                                                                   |                                                                                     |                                                                                   |                                                                                     |                                                                                     |
| <a href="#">Confirmation</a>                                                      | <a href="#">other</a>                                                             |  |                                                                                   |                                                                                     |                                                                                     |
|                                                                                   |                                                                                   | UL                                                                                  |                                                                                   |                                                                                     |                                                                                     |

#### 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:

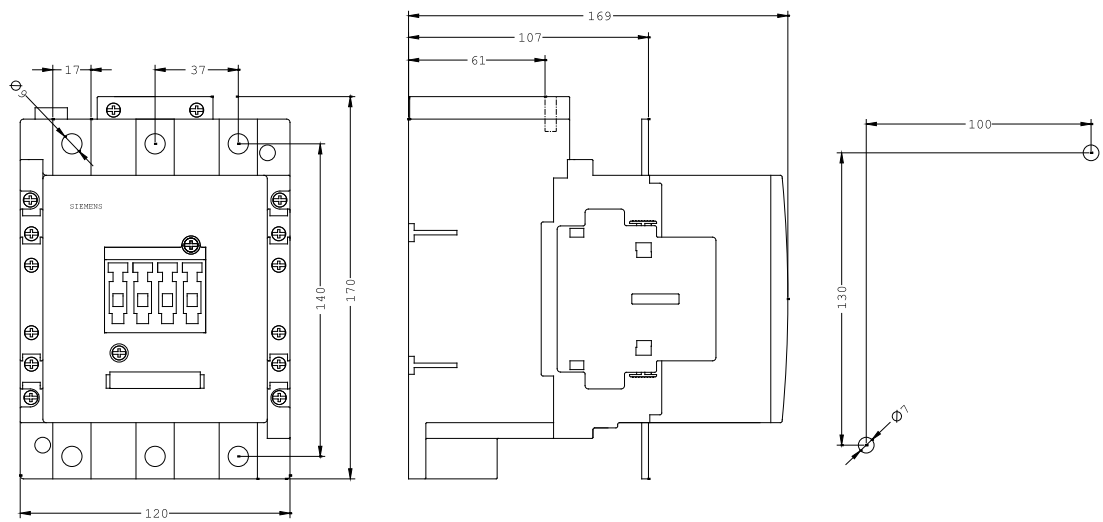
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1054-6AB36/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1054-6AB36](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1054-6AB36)



last change:

Jul 27, 2012