



CONTACTOR, AC-3 4 KW/400 V, 1 NC,  
DC 24 V, 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>		
<ul style="list-style-type: none"> <li>• of the contactor / typical</li> </ul>		30,000,000
<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-3 / at 400 V / rated value</li> </ul>	A	9
<ul style="list-style-type: none"> <li>• at AC-4 / at 400 V / rated value</li> </ul>	A	8.5
<ul style="list-style-type: none"> <li>• with 1 current path / at DC-1</li> <li>• at 24 V / rated value</li> </ul>	A	20

<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	2.1
<ul style="list-style-type: none"> <li>• with 2 current paths in series / at DC-1</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	20
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	12
<ul style="list-style-type: none"> <li>• with 3 current paths in series / at DC-1</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	20
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	20
<ul style="list-style-type: none"> <li>• with 1 current path / at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	20
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	0.15
<ul style="list-style-type: none"> <li>• with 2 current paths in series / at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	20
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	0.35
<ul style="list-style-type: none"> <li>• with 3 current paths in series / at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	20
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	20
<b>Service power</b>		
<ul style="list-style-type: none"> <li>• at AC-2 / at 400 V / rated value</li> </ul>	kW	4
<ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>	kW	4
<ul style="list-style-type: none"> <li>• at AC-4 / at 400 V / rated value</li> </ul>	W	4,000

Control circuit:		
<b>Type of voltage / of the controlled supply voltage</b>		DC
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		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

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>		
<ul style="list-style-type: none"> <li>• with type of assignment 1 / required</li> </ul>		fuse gL/gG: 35 A
<ul style="list-style-type: none"> <li>• at type of coordination 2 / required</li> </ul>		fuse gL/gG: 20 A

**Installation/mounting/dimensions:**

<b>Type of mounting</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> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</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:**

## General Product Approval



Functional Safety /  
Safety of  
Machinery

Declaration of  
Conformity

Test Certificates

[Type Examination](#)



EG-Konf.

[other](#)

[Special Test  
Certificate](#)

## Shipping Approval



ABS



DNV



GL



LRS



PRS



RINA

Shipping Approval

other



RMRS

[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:**

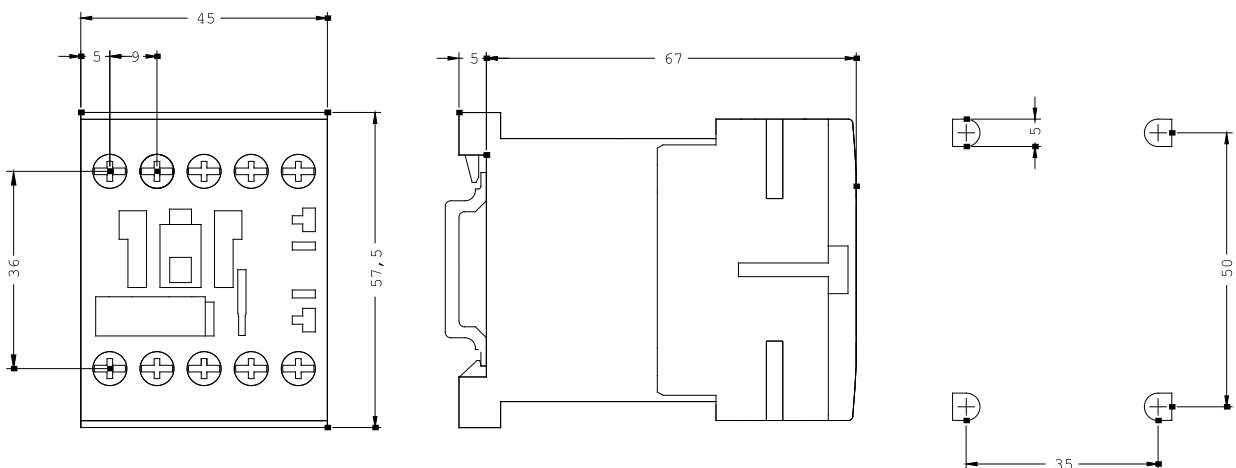
<http://www.siemens.com/cax>

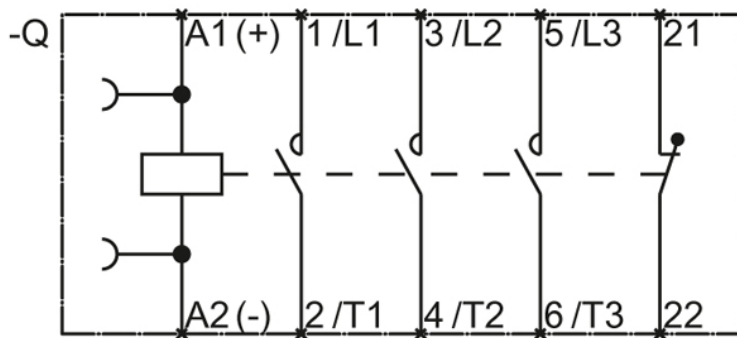
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WWW/view/en/3RT1016-1BB42/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1016-1BB42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1016-1BB42)





last change:

Feb 24, 2014