



CONTACTOR, AC-3 4 KW/400 V, 1 NO,  
DC 24 V, 3-POLE, SIZE S00,  
SCREW CONNECTION

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Protection class IP / on the front		IP20
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		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		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	22
• at AC-3 / at 400 V / rated value	A	9
• 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	4
• at AC-3 / at 400 V / rated value	kW	4
• at AC-4 / at 400 V / rated value	W	4,000

#### Control circuit:

<b>Voltage type / of control feed voltage</b>		DC
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
• for DC		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>		0
<b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b>		1

#### 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
- at type of coordination 2 / required

fuse gL/gG: 35 A

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>		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
<b>Type of the connectable conductor cross-section</b>		
• for main contacts		
• solid		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> )
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for AWG conductors / for main contacts		2x (20 ... 16), 2x (18 ... 14), 1x 12
• for auxiliary contacts		
• solid		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> )
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for AWG conductors / for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14), 1x 12

#### Certificates/approvals:

## General Product Approval

## Functional Safety / Safety of Machinery



CCC



CSA



UR

[Type Examination](#)

## Declaration of Conformity

## Test Certificates



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:

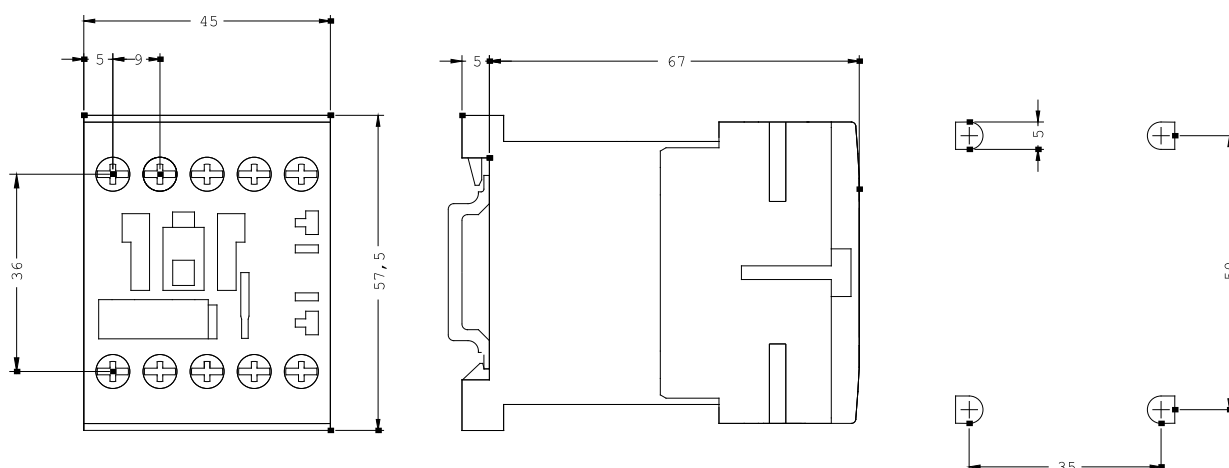
<http://www.siemens.com/cax>

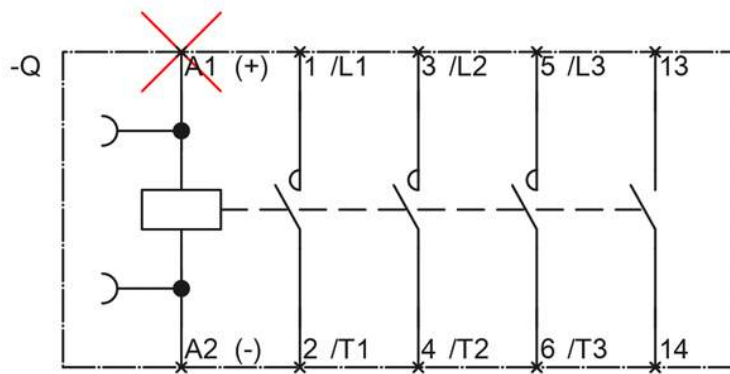
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1016-1BB41/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1016-1BB41](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1016-1BB41)





last change:

Jul 7, 2014