

CONTACTOR, AC-3 4KW/400V, AC 110V,  
50HZ, 3-POLE, SIZE S0, SCREW CONNECTION

### General technical data:

<b>product brand name</b>		SIRIUS
<b>Size of the contactor</b>		S0
<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>		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>Operational 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> <li>• at 60 °C ambient temperature / rated value</li> </ul> </li> <li>• at AC-3 / at 400 V / rated value</li> <li>• at AC-4 / at 400 V / rated value</li> <li>• with 1 current path / at DC-1 <ul style="list-style-type: none"> <li>• at 24 V / rated value</li> <li>• at 110 V / rated value</li> </ul> </li> <li>• with 2 current paths in series / at DC-1 <ul style="list-style-type: none"> <li>• at 24 V / rated value</li> <li>• at 110 V / rated value</li> </ul> </li> <li>• with 3 current paths in series / at DC-1 <ul style="list-style-type: none"> <li>• at 24 V / rated value</li> <li>• at 110 V / rated value</li> </ul> </li> <li>• with 1 current path / at DC-3 / at DC-5 <ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul> </li> </ul>	A	40
	A	35
	A	9
	A	8.5
	A	35
	A	4.5
	A	35
	A	35
	A	35
	A	35
	A	20

<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	2.5
<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	35
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	15
<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	35
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	35
<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>		AC
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• for AC</li> </ul>		0.8 ... 1.1
<b>Apparent pull-in power / of the solenoid / for AC</b>	V·A	61
<b>Apparent holding power / of the solenoid / for AC</b>	V·A	7.8
<b>Inductive power factor / with the pull-in power of the coil</b>		0.82
<b>Inductive power factor / with the pull-in power of the coil</b>		0.24

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 / of the auxiliary contacts</b>		
<ul style="list-style-type: none"> <li>• at AC-12 / maximum</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at AC-15</li> </ul>		
<ul style="list-style-type: none"> <li>• at 230 V</li> </ul>	A	6
<ul style="list-style-type: none"> <li>• at 400 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at DC-12</li> </ul>		
<ul style="list-style-type: none"> <li>• at 60 V</li> </ul>	A	6
<ul style="list-style-type: none"> <li>• at 110 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at 220 V</li> </ul>	A	1
<ul style="list-style-type: none"> <li>• at DC-13</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 60 V</li> </ul>	A	2

- at 110 V
- at 220 V

A	1
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: 63 A  
 fuse gL/gG: 25 A

### Installation/mounting/dimensions:

#### Type of mounting

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

#### series installation

Yes

#### Width

mm 45

#### Height

mm 85

#### Depth

mm 91

#### Distance, to be maintained, to earthed part / sideways

mm 6

### Connection type:

#### Design of the electrical connection

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

screw-type terminals  
 screw-type terminals

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

- for main contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for main contacts
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for auxiliary contacts

2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 mm<sup>2</sup>), max. 2x 10 mm<sup>2</sup>  
 2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 mm<sup>2</sup>)  
 2x (20 ... 16), 2x (18 ... 14), 1x 12  
 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>)  
 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)  
 2x (20 ... 16), 2x (18 ... 14), 1x 12

### Certificates/approvals:

**General Product Approval**

**Functional Safety /  
Safety of  
Machinery**



CCC



CSA



GOST



KETI



UL

[Type Examination](#)

**Declaration of  
Conformity**

**Test Certificates**



EG-Konf.

[Special Test  
Certificate](#)

[Type Test  
Certificates/Test  
Report](#)

**Shipping Approval**



ABS



BUREAU  
VERITAS



DNV



GL



LRS



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:**

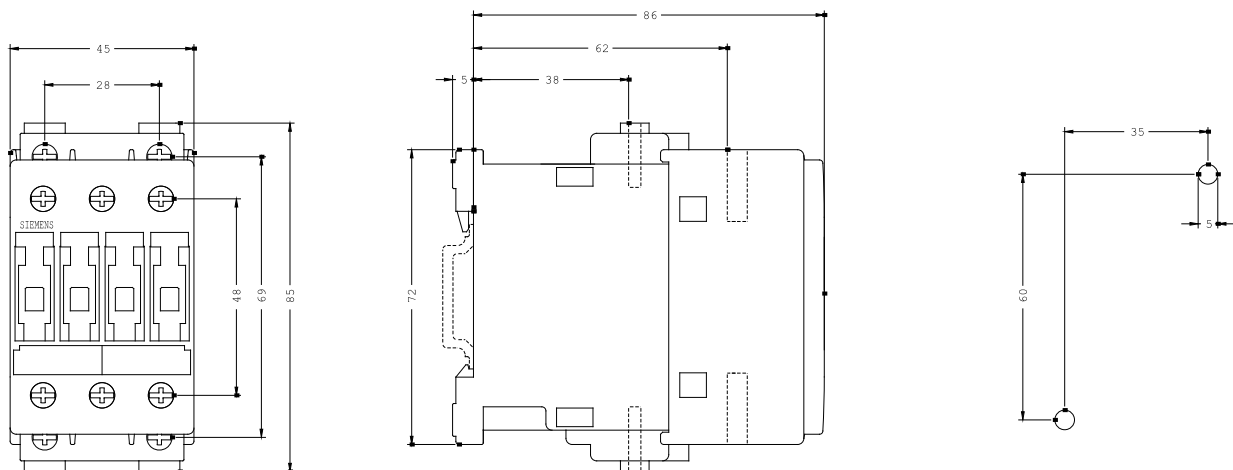
<http://www.siemens.com/cax>

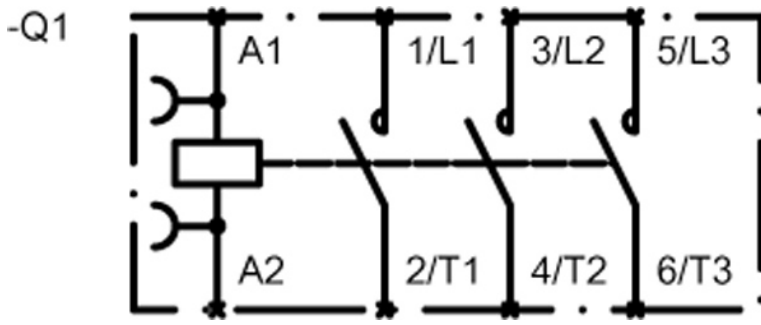
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/VW/view/en/3RT1023-1AF00/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1023-1AF00](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1023-1AF00)





last change:

Feb 4, 2013