



CONTACTOR, AC-3 4 KW/400 V, AC-1 18 A,  
AC 220 V 50/60 HZ 4-POLE, 2 NO + 2 NC,  
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>Protection against electrical shock</b>		finger-safe
<b>Degree of pollution</b>		3
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature</b>		
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
<b>Insulation voltage / rated value</b>	V	690
<b>Mechanical operating cycles as operating time</b>		
• 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:

<b>Number of NC contacts / for main contacts</b>		2
<b>Number of NO contacts / for main contacts</b>		2
<b>Operational current / at AC-1 / up to 690 V</b>		

• at 40 °C ambient temperature / rated value	A	18
• at 60 °C ambient temperature / rated value	A	16
<b>Operating current / at AC-2 / at AC-3</b>		
• at 400 V		
• per NO contact / rated value	A	9
• per NC contact / rated value	A	9
<b>Operating current</b>		
• with 1 current path / at DC-1		
• at 24 V / rated value	A	16
• at 110 V / rated value	A	2.1
• at 220 V / rated value	A	0.8
• at 440 V / rated value	A	0.6
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	16
• at 110 V / rated value	A	12
• at 220 V / rated value	A	1.6
• at 440 V / rated value	A	0.8
<b>Operating current</b>		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V		
• per NO contact / rated value	A	16
• per NC contact / rated value	A	16
• at 110 V		
• per NO contact / rated value	A	0.15
• per NC contact / rated value	A	0.075
• at 220 V		
• per NO contact / rated value	A	0.75
• per NC contact / rated value	A	0.375
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V		
• per NO contact / rated value	A	16
• per NC contact / rated value	A	16
• at 110 V		
• per NO contact / rated value	A	0.35
• per NC contact / rated value	A	0.175
<b>Operating performance</b>		
• at AC-1		
• at 230 V / rated value	kW	6.5
• at 400 V / rated value	kW	11
• at AC-2 / at AC-3		

<ul style="list-style-type: none"> <li>• at 230 V <ul style="list-style-type: none"> <li>• per NO contact / rated value</li> <li>• per NC contact / rated value</li> </ul> </li> <li>• at 400 V <ul style="list-style-type: none"> <li>• per NO contact / rated value</li> <li>• per NC contact / rated value</li> </ul> </li> </ul>	kW	3
	kW	3
	kW	4
	kW	4
<b>Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor</b>	W	0.7
<b>Frequency of operation</b>		
<ul style="list-style-type: none"> <li>• with AC-1 / maximum</li> </ul>	1/h	1,000
<ul style="list-style-type: none"> <li>• at AC-2 / at AC-3 / maximum</li> </ul>	1/h	750

#### Control circuit/ Control:

<b>Voltage type / of control feed voltage</b>		AC
<b>Control supply voltage</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz / at AC / rated value</li> </ul>	V	220
<ul style="list-style-type: none"> <li>• at 60 Hz / at AC / rated value</li> </ul>	V	220
<b>operating range factor control supply voltage rated value / of the magnet coil</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz / for AC</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• at 60 Hz / for AC</li> </ul>		0.85 ... 1.1
<b>Apparent pull-in power / of the solenoid / for AC</b>	V·A	27
<b>Apparent holding power / of the solenoid / for AC</b>	V·A	4.4
<b>Inductive power factor</b>		
<ul style="list-style-type: none"> <li>• with the pull-in power of the coil</li> </ul>		0.8
<ul style="list-style-type: none"> <li>• with the pull-in power of the coil</li> </ul>		0.27
<b>Closing delay</b>		
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	ms	8 ... 35
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	ms	25 ... 100
<b>Opening delay</b>		
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	ms	4 ... 30
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	ms	7 ... 10
<b>Arcing time</b>	ms	10 ... 15
<b>Residual current / of electronics / for control with signal &lt;0&gt;</b>		
<ul style="list-style-type: none"> <li>• at 230 V / with AC / maximum permissible</li> </ul>	A	0.0030

#### 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</b>	• at AC-12 / maximum	A	10
	• at AC-15 / at 230 V / rated value	A	6
	• at AC-15 / at 400 V / rated value	A	3
<b>Operating current / at DC-12</b>	• at 60 V / rated value	A	6
	• at 110 V / rated value	A	3
	• at 220 V / rated value	A	1
<b>Operating current / at DC-13</b>	• at 24 V / rated value	A	10
	• at 60 V / rated value	A	2
	• at 110 V / rated value	A	1
	• at 220 V / rated value	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: 35 A

fuse gL/gG: 20 A

#### Installation/ mounting/ dimensions:

##### mounting position

with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back

##### Mounting type

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

##### Mounting type / series installation

Yes

##### Width

mm 45

##### Height

mm 57.5

##### Depth

mm 72

#### Connections/ terminals:

##### 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

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>)

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

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



[Type Examination](#)

#### Declaration of Conformity

#### Test Certificates



[Special Test Certificate](#)

#### Shipping Approval



#### 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/industrymall>

#### Cax online generator

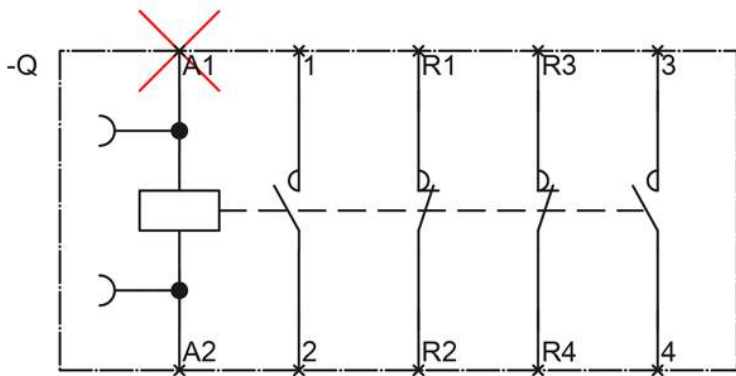
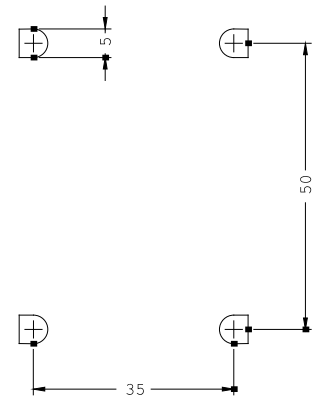
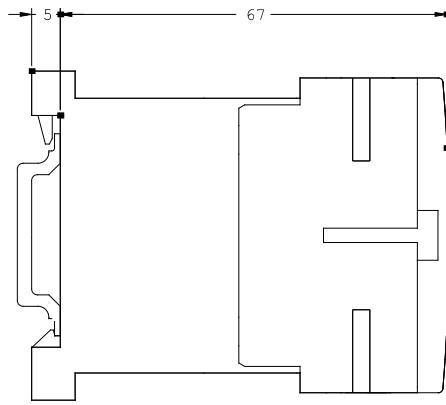
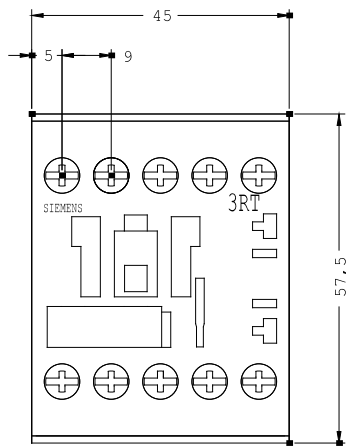
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1516-1AN20/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1516-1AN20](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1516-1AN20)



last change:

Jul 28, 2014