



CONTACTOR, AC-3 7,5 KW/400 V,  
AC 220V 50HZ/240V 60HZ, 3-POLE,  
SIZE S0, SCREW CONNECTION

**General technical data:**

<b>product brand name</b>		SIRIUS
<b>Size of contactor</b>		S0
<b>Protection class IP / on the front</b>		IP20
<b>Degree of pollution</b>		3
<b>Installation altitude / at height above sea level / maximum</b>	m	2,000
<b>Ambient temperature</b>		
• during operation	°C	-25 ... +60
<b>Mechanical service life (switching cycles)</b>		
• 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:**

<b>Number of NC contacts / for main contacts</b>		0
<b>Number of NO contacts / for main contacts</b>		3
<b>Operating current</b>		
• at AC-1 / up to 690 V		
• at ambient temperature 40 °C / Rated value	A	40
• at ambient temperature 60 °C / Rated value	A	35

• at AC-3 / at 400 V / Rated value	A	17
• at AC-4 / at 400 V / Rated value	A	15.5
<b>Operating current</b>		
• with 1 current path / at DC-1		
• at 24 V / Rated value	A	35
• at 110 V / Rated value	A	4.5
• with 2 current paths in series / at DC-1		
• at 24 V / Rated value	A	35
• at 110 V / Rated value	A	35
• with 3 current paths in series / at DC-1		
• at 24 V / Rated value	A	35
• at 110 V / Rated value	A	35
<b>Operating current</b>		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / Rated value	A	20
• 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	35
• at 110 V / Rated value	A	15
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	A	35
• at 110 V / Rated value	A	35
<b>Operating power</b>		
• at AC-1		
• at 400 V / Rated value	kW	23
• at AC-2		
• at 400 V / Rated value	kW	7.5
• at AC-3		
• at 400 V / Rated value	kW	7.5
• at 500 V / Rated value	kW	10
• at 690 V / Rated value	kW	11
• at AC-4		
• at 400 V / Rated value	W	7,500
<b>Active power loss / at AC-3 / at 400 V / for rated value of the operating current / per conductor</b>	W	0.9
<b>Control circuit/ Control:</b>		
<b>Type of voltage / of the control supply voltage</b>		AC
<b>Control supply voltage</b>		
• with AC / at 50 Hz / Rated value	V	220

<ul style="list-style-type: none"> <li>• with AC / at 60 Hz / Rated value</li> </ul>	V	240
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
<ul style="list-style-type: none"> <li>• with AC / at 50 Hz</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• with AC / at 60 Hz</li> </ul>		0.8 ... 1.1
<b>Apparent pick-up power / of the magnet coil / with AC</b>	V·A	69
<b>Apparent holding power / of the magnet coil / with AC</b>	V·A	7.5
<b>Inductive power factor</b>		
<ul style="list-style-type: none"> <li>• with closing power of the coil</li> </ul>		0.76
<ul style="list-style-type: none"> <li>• with the holding power of the coil</li> </ul>		0.28

#### 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 contact</b>		0
<b>Number of NO contacts / for auxiliary contacts / instantaneous contact</b>		0
<b>Operating current</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 / Rated value</li> </ul>	A	6
<ul style="list-style-type: none"> <li>• at 400 V / Rated value</li> </ul>	A	3
<b>Operating current / at DC-12</b>		
<ul style="list-style-type: none"> <li>• at 60 V / Rated value</li> </ul>	A	6
<ul style="list-style-type: none"> <li>• at 110 V / Rated value</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at 220 V / Rated value</li> </ul>	A	1
<b>Operating current / at DC-13</b>		
<ul style="list-style-type: none"> <li>• at 24 V / Rated value</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 60 V / Rated value</li> </ul>	A	2
<ul style="list-style-type: none"> <li>• at 110 V / Rated value</li> </ul>	A	1
<ul style="list-style-type: none"> <li>• at 220 V / Rated value</li> </ul>	A	0.3

#### 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: 63 A
<ul style="list-style-type: none"> <li>• with type of assignment 2 / required</li> </ul>		fuse gL/gG: 25 A

#### Installation/ mounting/ dimensions:

<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
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<b>Mounting type / Side-by-side mounting</b>		Yes
<b>Width</b>	mm	45
<b>Height</b>	mm	85
<b>Depth</b>	mm	91
<b>Spacing required / for grounded parts</b>	mm	6

#### Connections/ terminals:

<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 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 core 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 core end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul>		<p>2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 mm<sup>2</sup>), max. 2x 10 mm<sup>2</sup></p> <p>2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 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

[Type Examination](#)



EG-Konf.

##### Declaration of Conformity

#### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### 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

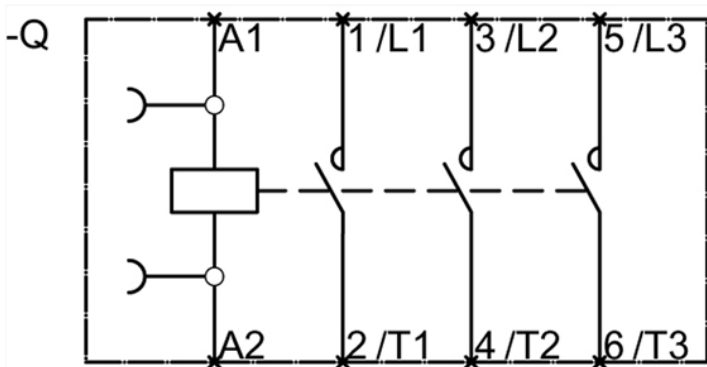
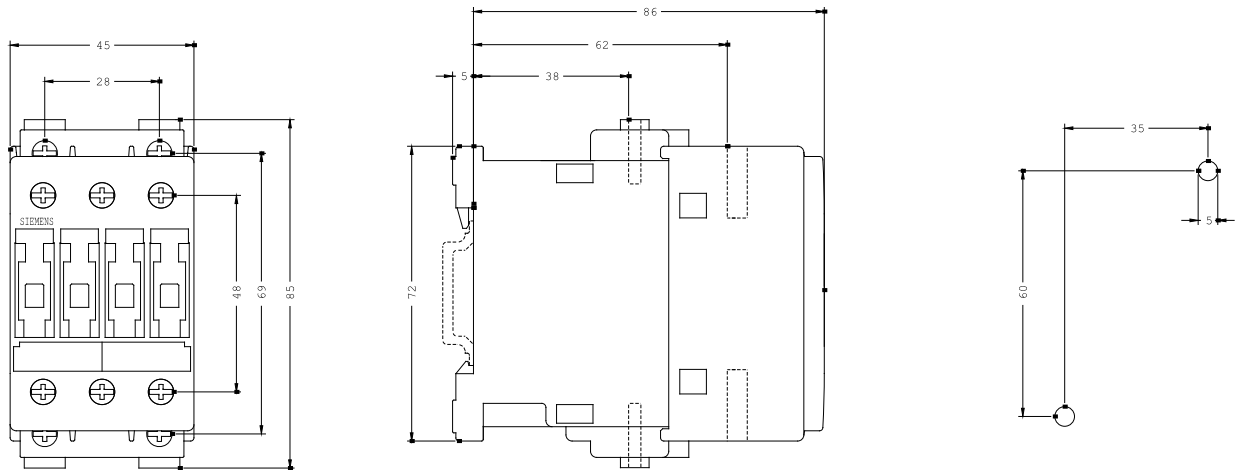
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1025-1AP60/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1025-1AP60](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1025-1AP60)



last change:

Nov 11, 2014