

CONTACTOR, 3PH, 5.5 KW/400 V, 32 V AC,  
50/60 HZ, 3-POLE, SIZE S0,  
SCREW TERMINAL

## General details:

<b>Product brand name</b>		SIRIUS
<b>product designation</b>		power contactor
<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>Active power loss / per conductor / typical</b>	W	0.5
<b>Item designation</b>		
<ul style="list-style-type: none"> <li>• according to DIN EN 61346-2</li> </ul>		Q
<ul style="list-style-type: none"> <li>• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		K
<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 poles / for main current circuit</b>		3
<b>Number of NC contacts / for main contacts</b>		0
<b>Number of NO contacts / for main contacts</b>		3
<b>Operating current / at AC-1 / at 400 V / at 40 °C ambient temperature / rated value</b>	A	40
<b>Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value</b>	A	35
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>	A	12
<ul style="list-style-type: none"> <li>• with 1 current path</li> </ul>		
<ul style="list-style-type: none"> <li>• at DC-1</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	4.5
<ul style="list-style-type: none"> <li>• 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	2.5
<ul style="list-style-type: none"> <li>• with 2 current paths in series</li> </ul>		
<ul style="list-style-type: none"> <li>• at DC-1</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
<ul style="list-style-type: none"> <li>• 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</li> </ul>		
<ul style="list-style-type: none"> <li>• at DC-1</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
<ul style="list-style-type: none"> <li>• 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-1 / at 400 V / rated value</li> </ul>	kW	23
<ul style="list-style-type: none"> <li>• at AC-2 / at 400 V / rated value</li> </ul>	kW	5.5
<ul style="list-style-type: none"> <li>• at AC-3</li> </ul>		
<ul style="list-style-type: none"> <li>• at 400 V / rated value</li> </ul>	kW	5.5
<ul style="list-style-type: none"> <li>• at 500 V / rated value</li> </ul>	kW	7.5
<ul style="list-style-type: none"> <li>• at 690 V / rated value</li> </ul>	kW	7.5

Control circuit:		
<b>Design of activation</b>		conventional
<b>Type of voltage / of the controlled supply voltage</b>		AC
<b>Control supply voltage frequency</b>		
<ul style="list-style-type: none"> <li>• 1 / rated value</li> </ul>	Hz	50
<b>Control supply voltage / 1</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz / for AC</li> </ul>		
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	V	32

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</b>		
<ul style="list-style-type: none"> <li>• instantaneous switching</li> </ul>		0
<ul style="list-style-type: none"> <li>• lagging switching</li> </ul>		0
<b>Number of NO contacts / for auxiliary contacts</b>		
<ul style="list-style-type: none"> <li>• instantaneous switching</li> </ul>		0

• leading switching		0
<b>Operating current / of the auxiliary contacts</b>		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at DC-12		
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 60 V	A	2
• at 110 V	A	1
• at 220 V	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:

<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	85
<b>Depth</b>	mm	91
<b>Distance, to be maintained, to earthed part / sideways</b>	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

#### Certificates/approvals:

General Product Approval

Functional Safety / Safety of Machinery



CQC



CSA

[KETI](#)

[ROSTEST](#)



UL

[SUVA](#)

Test Certificates

[Manufacturer](#)

Shipping Approval



ABS



BUREAU VERITAS



DNV



GL



LRS

Shipping Approval

other



RMRS

[Manufacturer](#)

[other](#)

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

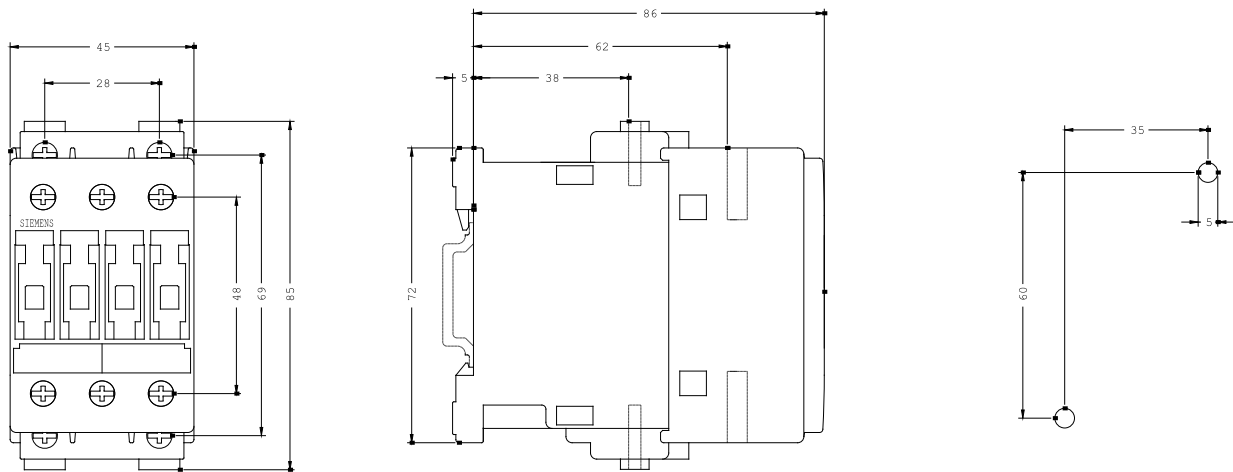
<http://www.siemens.com/cax>

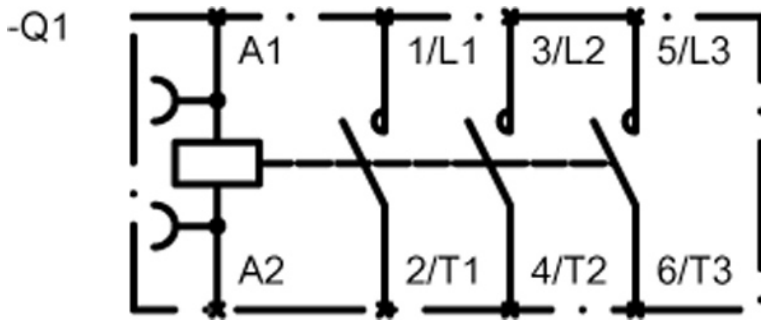
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1024-1AC00/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1024-1AC00](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1024-1AC00)





last change:

Sep 30, 2011