

CONTACTOR, AC-3 4KW/400V, DC 24 V,  
3-POLE, SIZE S0, SCREW CONNECTION

General details:		
product brand name		SIRIUS
product designation		power contactor
Size of the contactor		S0
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
Active power loss / per conductor / typical	W	0.4
Item designation		
<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
Mechanical operating cycles as operating time		
<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:		
Number of poles / for main current circuit		3
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	40
Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value	A	35
Operating current		
<ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>	A	9
<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	4
<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	4
<ul style="list-style-type: none"> <li>• at 500 V / rated value</li> </ul>	kW	4.5
<ul style="list-style-type: none"> <li>• at 690 V / rated value</li> </ul>	kW	5.5

Control circuit:		
<b>Design of activation</b>		conventional
<b>Type of voltage / of the controlled supply voltage</b>		DC
<b>Control supply voltage / 1</b>		
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	V	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</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
<ul style="list-style-type: none"> <li>• leading switching</li> </ul>		0
<b>Operating current / of the auxiliary contacts</b>		

- at AC-12 / maximum
- at AC-15
  - at 230 V
  - at 400 V
- at DC-12
  - at 60 V
  - at 110 V
  - at 220 V
- at DC-13
  - at 24 V
  - at 60 V
  - at 110 V
  - at 220 V

A	10
A	6
A	3
A	6
A	3
A	1
A	10
A	2
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 101

#### 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

### 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



RMRS

other

[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

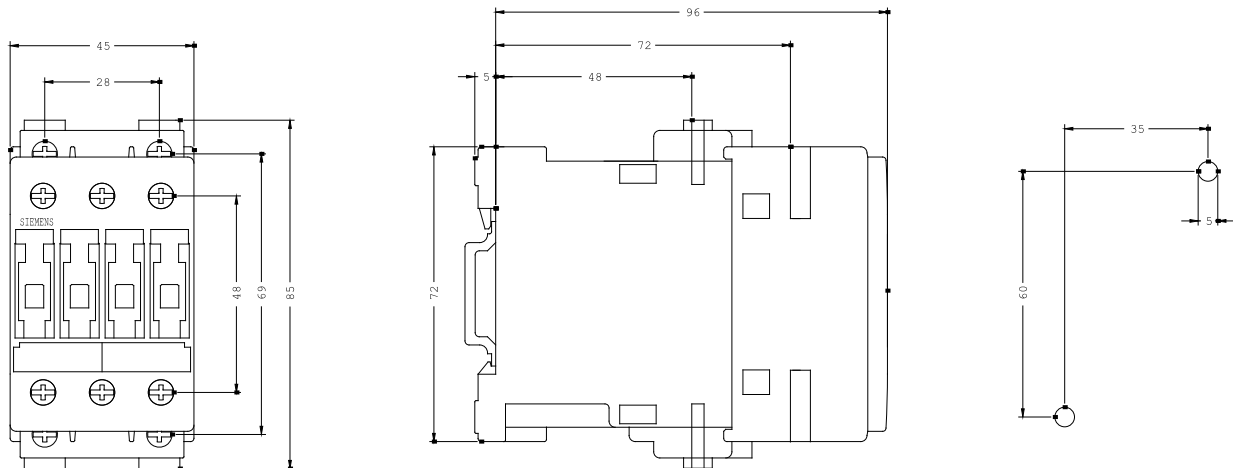
<http://www.siemens.com/cax>

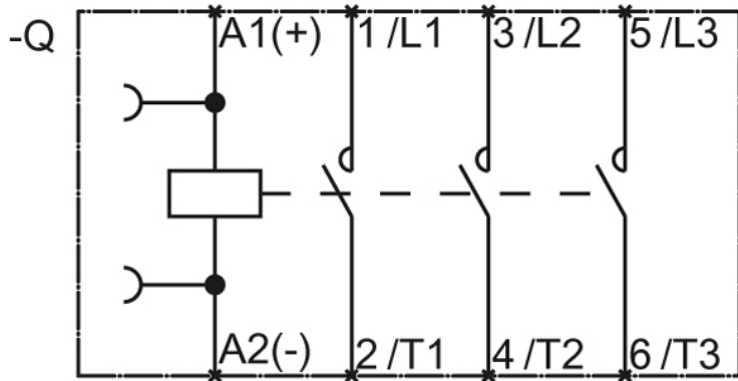
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1023-1BB40/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1023-1BB40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1023-1BB40)





last change:

Feb 10, 2012