



CONTACTOR, AC-1 110A,  
72KW/400V AC 230 V, 50 HZ, 4-POLE,  
SIZE S3, SCREW CONNECTION

### General technical data:

<b>product brand name</b>		SIRIUS
<b>Size of the contactor</b>		S3
<b>Protection class IP / on the front</b>		IP00
<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>		4
<b>Operational current</b>		
<ul style="list-style-type: none"> <li>• at AC-1 / at 400 V</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• at 40 °C ambient temperature / rated value</li> </ul> </li> </ul>	A	110
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• at 60 °C ambient temperature / rated value</li> </ul> </li> </ul>	A	100
<ul style="list-style-type: none"> <li>• with 1 current path / at DC-1</li> </ul>		

- at 24 V / rated value
- at 110 V / rated value
- with 2 current paths in series / at DC-1
  - at 24 V / rated value
  - at 110 V / rated value
- with 3 current paths in series / at DC-1
  - at 24 V / rated value
  - at 110 V / rated value
- with 1 current path / at DC-3 / at DC-5
  - at 24 V / rated value
  - at 110 V / rated value
- with 2 current paths in series / at DC-3 / at DC-5
  - at 24 V / rated value
  - at 110 V / rated value
- with 3 current paths in series / at DC-3 / at DC-5
  - at 24 V / rated value
  - at 110 V / rated value

A	70
A	4.5
A	70
A	70
A	70
A	70
A	20
A	2.5
A	70
A	70
A	70
A	70

#### 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	218
<b>Apparent holding power / of the solenoid / for AC</b>	V·A	21
<b>Inductive power factor / with the pull-in power of the coil</b>		0.61
<b>Inductive power factor / with the pull-in power of the coil</b>		0.26

#### 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

#### 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: 250 A
<ul style="list-style-type: none"> <li>• at type of coordination 2 / required</li> </ul>		fuse gL/gG: 125 A

**Installation/mounting/dimensions:**

<b>Type of mounting</b>		screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail
<b>series installation</b>		Yes
<b>Width</b>	mm	93
<b>Height</b>	mm	146
<b>Depth</b>	mm	139
<b>Distance, to be maintained, to earthed part / sideways</b>	mm	6

**Connection type:**

<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>		screw-type terminals screw-type terminals
<b>Type of the 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>• stranded</li><li>• finely stranded<ul style="list-style-type: none"><li>• with conductor end processing</li><li>• without conductor final cutting</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 conductor end processing</li></ul></li></ul></li><li>• for AWG conductors / for auxiliary contacts</li></ul>		2x (2.5 ... 16 mm <sup>2</sup> ) 2x (4 ... 50 mm <sup>2</sup> ) 2x (2.5 ... 35 mm <sup>2</sup> ) 2x (4 ... 35 mm <sup>2</sup> ) 2x (10 ... 1/0) 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**

**Declaration of  
Conformity**



CCC



CSA



GOST



UL

[Type Examination](#)



EG-Konf.

**Test Certificates**

[Special Test  
Certificate](#)

**Shipping Approval**



ABS



DNV



GL



LRS



RINA



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:**

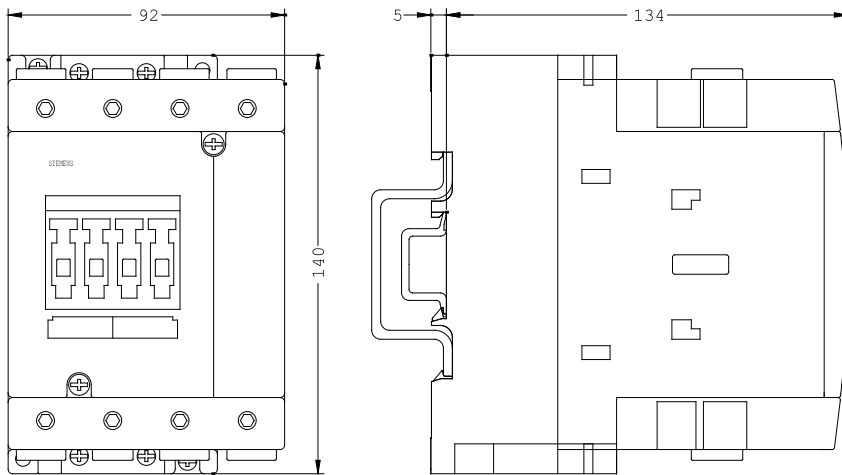
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1344-1AP00/all>

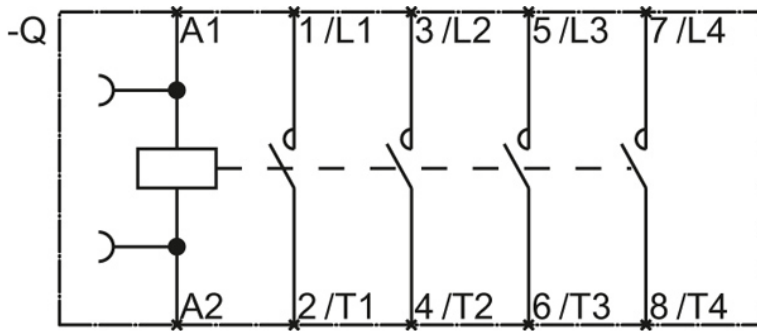
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1344-1AP00](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1344-1AP00)



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last change:

Feb 15, 2013