



CONTACTOR, AC-1 110 A,
AC 240 V 60 HZ 4-POLE, SIZE S3,
SCREW CONNECTION

General technical data:

product brand name		SIRIUS
Size of the contactor		S3
Protection class IP / on the front		IP00
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature / during operating	°C	-25 ... +60
Mechanical operating cycles as operating time		
• 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:

Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		4
Operational current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	A	110
• at 60 °C ambient temperature / rated value	A	100
• with 1 current path / at DC-1		

- 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:

Type of voltage / of the controlled supply voltage		AC
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz		
• for AC		0.8 ... 1.1
• at 60 Hz		
• for AC		0.8 ... 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	232
Apparent holding power / of the solenoid / for AC	V·A	20
Inductive power factor / with the pull-in power of the coil		0.55
Inductive power factor / with the pull-in power of the coil		0.28

Auxiliary circuit:

Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		0
Number of NO contacts / for auxiliary contacts / instantaneous switching		0

Short-circuit:

Design of the fuse link		
• for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
• for short-circuit protection of the main circuit		

- with type of assignment 1 / required
- at type of coordination 2 / required

fuse gL/gG: 250 A

fuse gL/gG: 125 A

Installation/mounting/dimensions:

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

Connection type:

Design of the electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2x (2.5 ... 16 mm ²)
• stranded		2x (4 ... 50 mm ²)
• finely stranded		
• with conductor end processing		2x (2.5 ... 35 mm ²)
• without conductor final cutting		2x (4 ... 35 mm ²)
• for AWG conductors / for main contacts		2x (10 ... 1/0)
• for auxiliary contacts		
• solid		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²)
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• for AWG conductors / for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/approvals:

General Product Approval			Functional Safety / Safety of Machinery	Declaration of Conformity	Test Certificates
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CSA



GOST



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EG-Konf.

[Special Test
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Shipping Approval



ABS



GL



LRS



RINA



RMRS

other

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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:

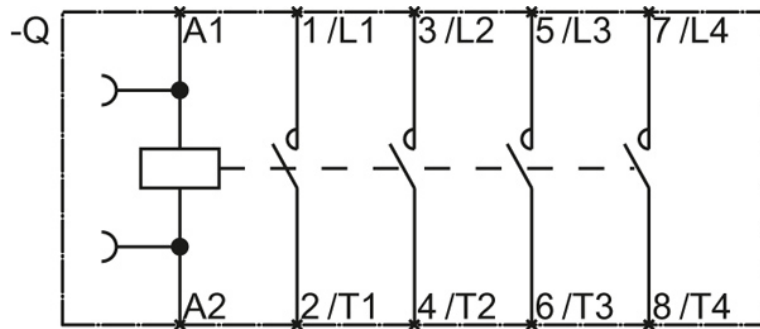
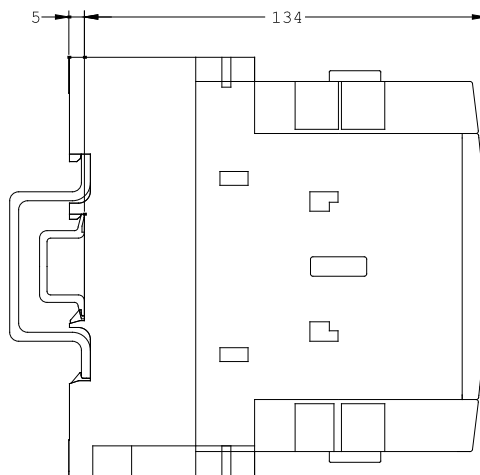
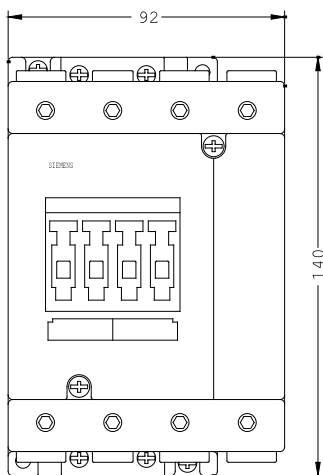
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1344-1AP60/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1344-1AP60



last change:

Feb 15, 2013