



CONTACTOR, AC-1 110 A,
AC 110 V 50/60 HZ 4-POLE, SIZE S3,
SCREW CONNECTION AVAILABLE MARCH '98

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
Operating current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	A	110
• with 1 current path / at DC-1		
• at 24 V / rated value	A	70

- 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	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:

Voltage type / of control feed voltage

AC

Operating range factor control supply voltage rated value / of the magnet coil

- at 50 Hz
 - for AC
- at 60 Hz
 - for AC

0.8 ... 1.1

0.8 ... 1.1

Apparent pull-in power / of the solenoid / for AC

V·A

247

Apparent holding power / of the solenoid / for AC

V·A

25

Inductive power factor / with the pull-in power of the coil

0.62

Inductive power factor / with the pull-in power of the coil

0.27

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
- for short-circuit protection of the main circuit
 - with type of assignment 1 / required

fuse gL/gG: 10 A

fuse gL/gG: 250 A

- at type of coordination 2 / required

fuse gL/gG: 125 A

Installation/mounting/dimensions:

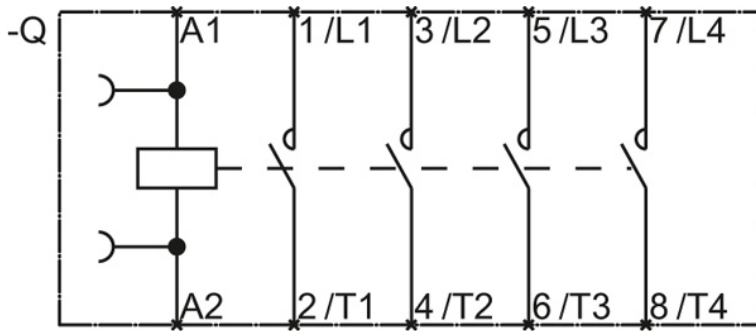
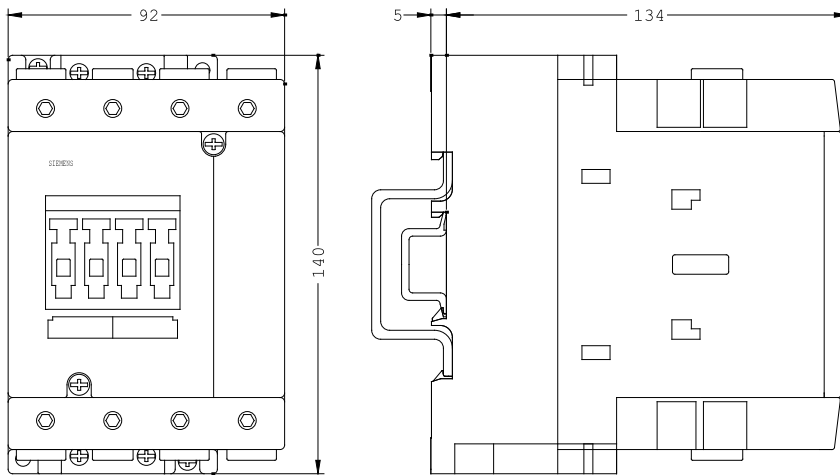
Mounting type		screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail
series installation		Yes
Width	mm	93
Height	mm	146
Depth	mm	139
Distance, to be maintained, to earthed part / sideways	mm	6

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 (10 ... 50 mm ²)
• finely stranded • with conductor end processing		2x (2.5 ... 35 mm ²)
• without conductor final cutting		2x (10 ... 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	
 CCC	 CSA	 EAC	 UL	Type Examination	 EG-Konf.	
Test Certificates		Shipping Approval				
Special Test Certificate		 ABS	 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/3RT1344-1AG20/all						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1344-1AG20						



last change:

Jul 28, 2014