



CONTACTOR, AC-1 140 A, AC 110 V, 50 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
Operational current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	A	140
• at 60 °C ambient temperature / rated value	A	120
• 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	80
A	9
A	80
A	80
A	80
A	80
A	20
A	2.5
A	80
A	80
A	80
A	80

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
Apparent pull-in power / of the solenoid / for AC	V·A	270
Apparent holding power / of the solenoid / for AC	V·A	22
Inductive power factor / with the pull-in power of the coil		0.68
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 • at type of coordination 2 / required		fuse gL/gG: 10 A fuse gL/gG: 250 A fuse gL/gG: 160 A
---	--	--

Installation/mounting/dimensions:

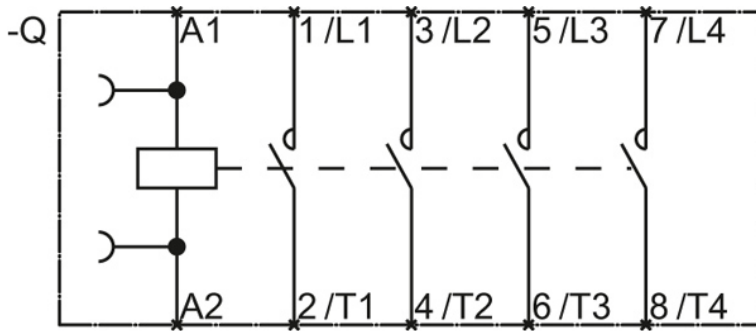
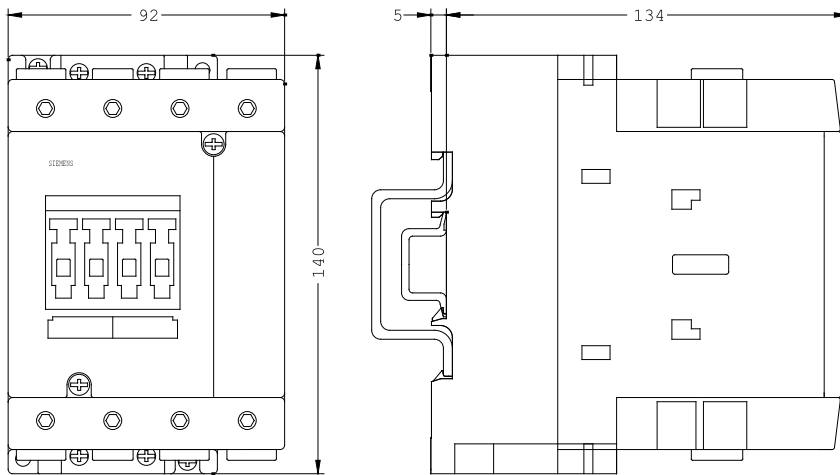
Type of mounting		screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail
series installation		Yes
Width	mm	93
Height	mm	146
Depth	mm	139
Distance, to be maintained, to earthed part / sideways	mm	6

Connection type:

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

Certificates/approvals:

General Product Approval				Functional Safety / Safety of Machinery	Declaration of Conformity
				Type Examination	
CCC	CSA	GOST	UL		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/3RT1346-1AF00/all					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)					
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1346-1AF00					



last change:

Feb 15, 2013