



CONTACTOR, AC-1 140 A,
AC 42 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	140
• with 1 current path / at DC-1		
• at 24 V / rated value	A	80

- 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	9
A	80
A	80
A	80
A	80
A	20
A	2.5
A	80
A	80
A	80
A	80

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

298

Apparent holding power / of the solenoid / for AC

V·A

27

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

0.7

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

0.29

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: 160 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:

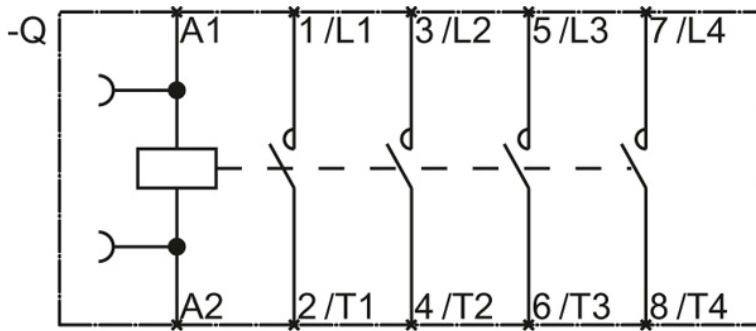
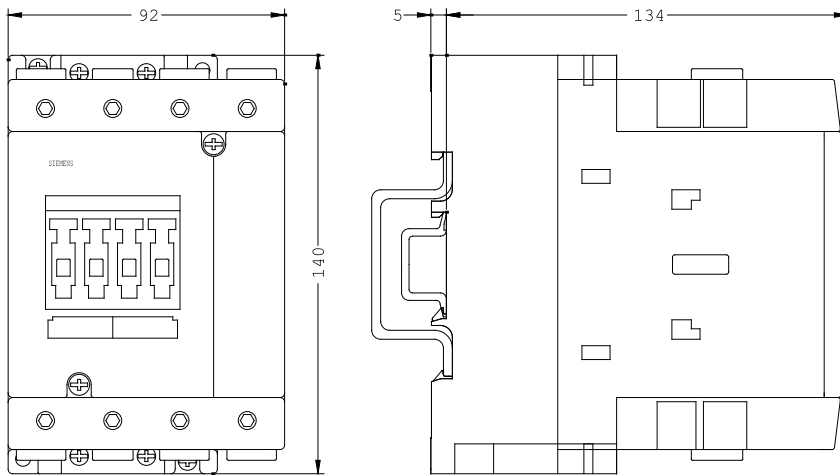
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last change:

Aug 4, 2014