



CONTACTOR, AC-1 60 A,
AC 42 V 50/60 HZ 4-POLE, SIZE S2,
SCREW CONNECTION AVAILABLE MARCH '98

General technical data:		
product brand name		SIRIUS
Size of the contactor		S2
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	60
• at AC-3 / at 400 V / rated value	A	26
• with 1 current path / at DC-1		

• at 24 V / rated value	A	50
• at 110 V / rated value	A	4.5
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	50
• at 110 V / rated value	A	45
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	50
• at 110 V / rated value	A	45
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	45
• at 110 V / rated value	A	25
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	45
• at 110 V / rated value	A	45
Service power		
• at AC-2 / at 400 V / rated value	kW	11
• at AC-3 / at 400 V / rated value	kW	11

Control circuit:		
Voltage type / of control feed voltage		AC
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz		0.8 ... 1.1
• for AC		
• at 60 Hz		0.8 ... 1.1
• for AC		
Apparent pull-in power / of the solenoid / for AC	V·A	170
Apparent holding power / of the solenoid / for AC	V·A	15
Inductive power factor / with the pull-in power of the coil		0.76
Inductive power factor / with the pull-in power of the coil		0.35

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:		
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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	fuse gL/gG: 160 A
	• at type of coordination 2 / required	fuse gL/gG: 63 A

Installation/mounting/dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
series installation		Yes
Width	mm	73
Height	mm	112
Depth	mm	115
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 (0.75 ... 16 mm ²)
	• stranded	2x (0.75 ... 25 mm ²)
	• finely stranded	
	• with conductor end processing	2x (0.75 ... 16 mm ²)
	• without conductor final cutting	2x (0.75 ... 16 mm ²)
	• for AWG conductors / for main contacts	2x (18 ... 2)
	• 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:

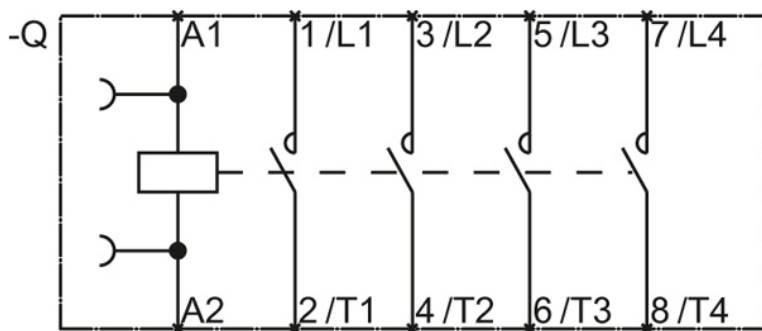
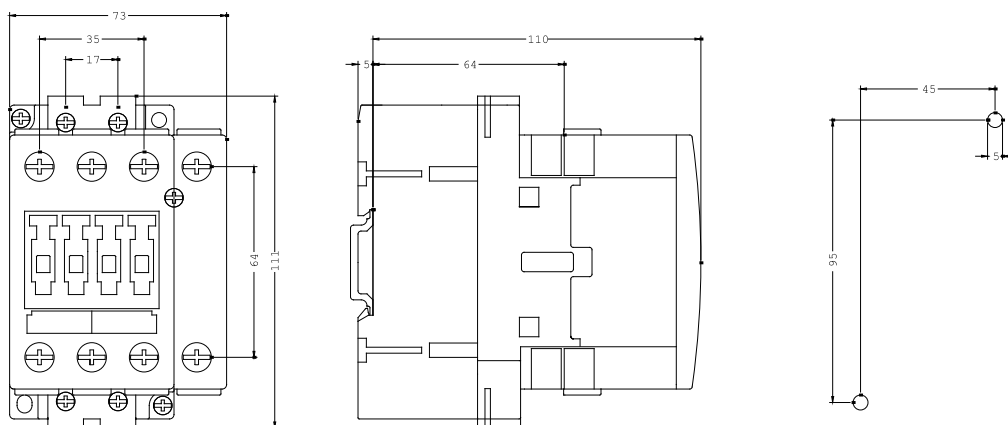
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last change:

Jul 28, 2014