



CONTACTOR, AC-3 22 KW/400 V,
AC 24V 50/60HZ, 3-POLE, SIZE S2,
SCREW CONNECTION

General technical data:

product brand name	SIRIUS	
Size of the contactor	S2	
Protection class IP / on the front	IP20	
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	3	
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	50
• at AC-4 / at 400 V / rated value	A	41

• with 1 current path / at DC-1			
• at 24 V / rated value	A	55	
• at 110 V / rated value	A	4.5	
• with 2 current paths in series / at DC-1			
• at 24 V / rated value	A	55	
• at 110 V / rated value	A	25	
• with 3 current paths in series / at DC-1			
• at 24 V / rated value	A	55	
• at 110 V / rated value	A	55	
• with 1 current path / at DC-3 / at DC-5			
• at 24 V / rated value	A	35	
• 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	55	
• 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	55	
• at 110 V / rated value	A	55	

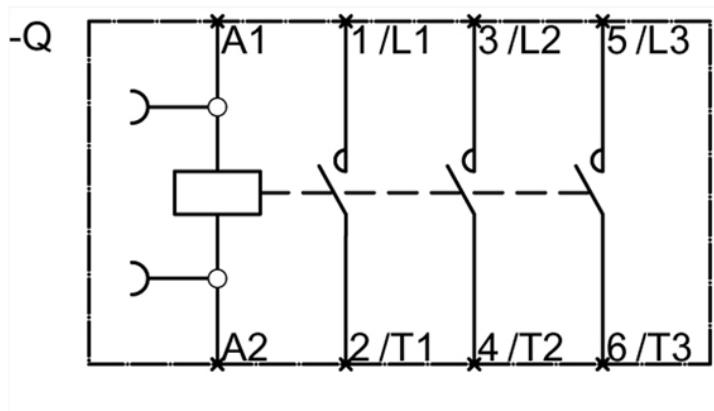
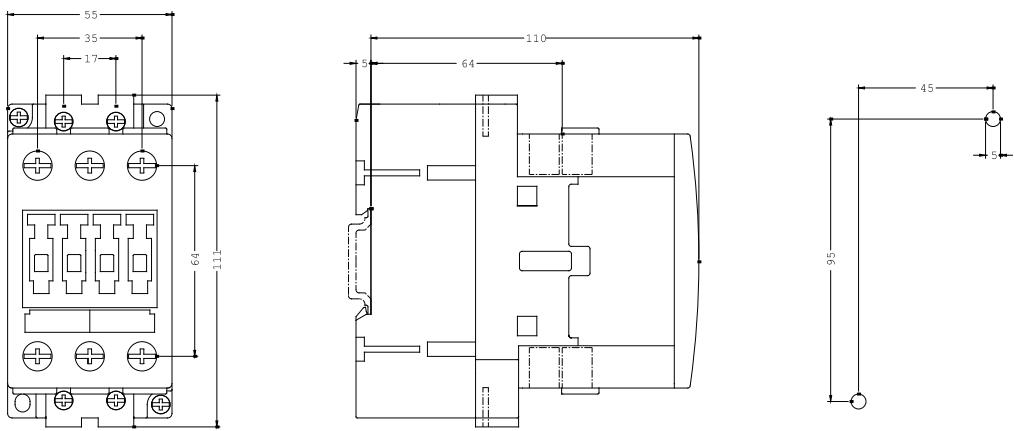
Service power			
• at AC-2 / at 400 V / rated value	kW	22	
• at AC-3 / at 400 V / rated value	kW	22	
• at AC-4 / at 400 V / rated value	W	22,000	

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		0.8 ... 1.1
• at 60 Hz		
• for AC		0.8 ... 1.1
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:		
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		fuse gL/gG: 160 A
• with type of assignment 1 / required		
• at type of coordination 2 / required		fuse gL/gG: 80 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	55
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:



last change:

Aug 4, 2014