



COUPLING RELAY, AC-3 5,5KW/400 V, 1 NO,
DC 24 V, 0.7...1.25*US, W.DIODE 3-POLE,
SIZE S00, SCREW CONNECTION

General technical data:

product brand name	SIRIUS	
Size of contactor	S00	
Protection class IP / on the front	IP20	
Degree of pollution	3	
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature	°C	-25 ... +60
• during operation		
Mechanical service life (switching cycles)	• of the contactor / typical	30,000,000
• of the contactor / typical		

Main circuit:

Number of NC contacts / for main contacts	0	
Number of NO contacts / for main contacts	3	
Operating current		
• at AC-1 / up to 690 V		
• at ambient temperature 40 °C / Rated value	A	22
• at ambient temperature 60 °C / Rated value	A	20
• at AC-3 / at 400 V / Rated value	A	12
• at AC-4 / at 400 V / Rated value	A	8.5
Operating current		

• with 1 current path / at DC-1			
• at 24 V / Rated value	A	20	
• at 110 V / Rated value	A	2.1	
• with 2 current paths in series / at DC-1			
• at 24 V / Rated value	A	20	
• at 110 V / Rated value	A	12	
• with 3 current paths in series / at DC-1			
• at 24 V / Rated value	A	20	
• at 110 V / Rated value	A	20	
Operating current			
• with 1 current path / at DC-3 / at DC-5			
• at 24 V / Rated value	A	20	
• at 110 V / Rated value	A	0.15	
• with 2 current paths in series / at DC-3 / at DC-5			
• at 24 V / Rated value	A	20	
• at 110 V / Rated value	A	0.35	
• with 3 current paths in series / at DC-3 / at DC-5			
• at 24 V / Rated value	A	20	
• at 110 V / Rated value	A	20	
Operating power			
• at AC-1			
• at 400 V / Rated value	kW	13	
• at AC-2			
• at 400 V / Rated value	kW	5.5	
• at AC-3			
• at 400 V / Rated value	kW	5.5	
• at 500 V / Rated value	kW	5.5	
• at 690 V / Rated value	kW	5.5	
• at AC-4			
• at 400 V / Rated value	W	4,000	
Active power loss / at AC-3 / at 400 V / for rated value of the operating current / per conductor	W	1.24	
Control circuit/ Control:			
Design of the surge suppressor		with diode	
Type of voltage / of the control supply voltage		DC	
Control supply voltage			
• for DC / Rated value	V	24	
Operating range factor control supply voltage rated value / of the magnet coil			
• for DC		0.7 ... 1.25	

Closing power / of the magnet coil / for DC	W	2.3
Holding power / of the magnet coil / for DC	W	2.3

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 contact		0
Number of NO contacts / for auxiliary contacts / instantaneous contact		1
Operating current		
• at AC-12 / maximum	A	10
• at AC-15	A	6
• at 230 V / Rated value	A	3
• at 400 V / Rated value	A	3
Operating current / at DC-12		
• at 60 V / Rated value	A	6
• at 110 V / Rated value	A	3
• at 220 V / Rated value	A	1
Operating current / at DC-13		
• at 24 V / Rated value	A	10
• at 60 V / Rated value	A	2
• at 110 V / Rated value	A	1
• at 220 V / Rated value	A	0.3

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		
• with type of assignment 1 / required		fuse gL/gG: 35 A
• with type of assignment 2 / required		fuse gL/gG: 20 A

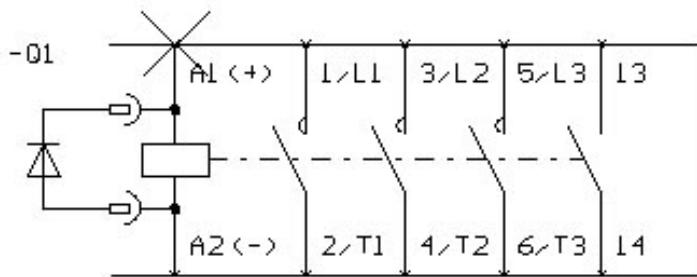
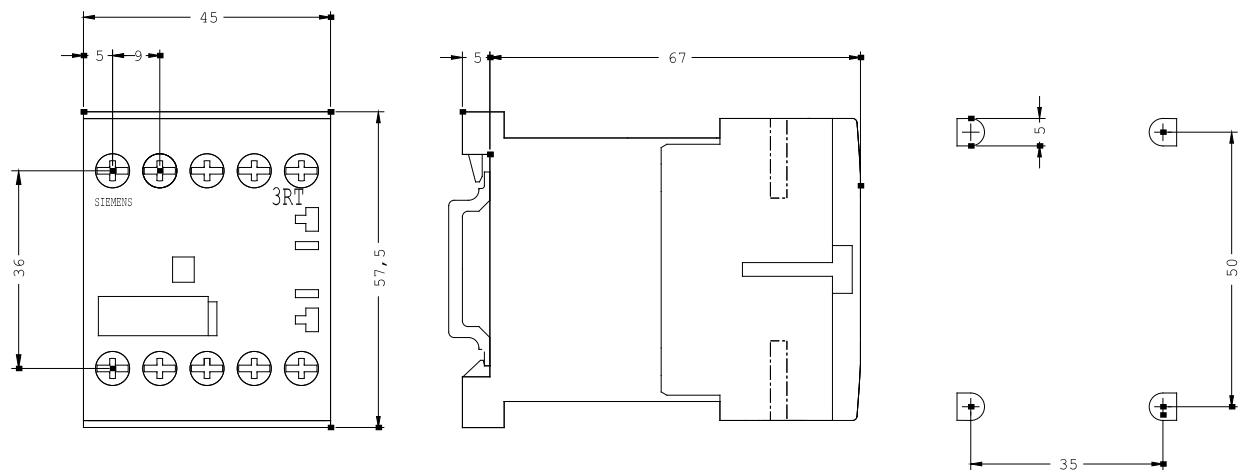
Installation/ mounting/ dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Mounting type / Side-by-side mounting		Yes
Width	mm	45
Height	mm	57.5
Depth	mm	72
Spacing required / for grounded parts	mm	6

Connections/ terminals:

Design of the electrical connection		
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• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
• for main 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		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• with core end processing		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• for AWG conductors / for main contacts		2x (20 ... 16), 2x (18 ... 14), 1x 12
• 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		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• with core 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



last change:

Dec 6, 2014