



Figure similar

CONTACTOR, AC-3 5.5KW/400 V, AC-1 22 A, DC 24V
4-POLE, 2 NO + 2 NC, SIZE S00, SCREW
CONNECTION

product brand name	SIRIUS
Product designation	power contactor

General technical data:

Insulation voltage	V	690
Degree of pollution		3
Mechanical service life (switching cycles)		
• of the contactor typical		30 000 000
• of the contactor with added electronics-compatible auxiliary switch block typical		5 000 000
• of the contactor with added auxiliary switch block typical		10 000 000
Protection class IP		IP20
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

Main circuit:

Number of poles for main current circuit		4
Number of NC contacts for main contacts		2
Number of NO contacts for main contacts		2
Operating current		
• at AC-1		
— up to 690 V at ambient temperature 40 °C	A	22
Rated value		

— up to 690 V at ambient temperature 60 °C Rated value • at AC-2 at AC-3 at 400 V — per NO contact Rated value — per NC contact Rated value	A	20
Operating current with 1 current path		
• at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value	A	20
• at DC-3 at DC-5 — at 24 V per NC contact Rated value — at 24 V per NO contact Rated value — at 110 V per NC contact Rated value — at 110 V per NO contact Rated value — at 220 V per NC contact Rated value — at 220 V per NO contact Rated value	A	20
Operating current with 2 current paths in series		
• at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value	A	20
• at DC-3 at DC-5 — at 110 V per NC contact Rated value — at 110 V per NO contact Rated value — at 24 V per NC contact Rated value — at 24 V per NO contact Rated value	A	0.175
Operating power		
• at AC-1 at 400 V Rated value	kW	13
Operating power		
• at AC-1 — at 230 V Rated value	kW	7.5
• at AC-2 at AC-3 — at 230 V per NC contact Rated value — at 230 V per NO contact Rated value — at 400 V per NC contact Rated value — at 400 V per NO contact Rated value	kW	3
		5.5
		5.5

Control circuit/ Control:

Type of voltage of the control supply voltage	DC
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Control supply voltage for DC		
• Rated value	V	24
Operating range factor control supply voltage rated value of the magnet coil for DC		0.85 ... 1.1
Closing power of the magnet coil for DC	W	3.3
Holding power of the magnet coil for DC	W	3.3
Control version of the switch operating mechanism		conventional

Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts — instantaneous contact		0
Number of NO contacts		
• for auxiliary contacts — instantaneous contact		0
Operating current at AC-15		
• at 230 V Rated value	A	6
• at 400 V Rated value	A	3
Operating current		
• at DC-12 at 220 V Rated value	A	1
• at DC-13 at 220 V Rated value	A	0.3
Operating current		
• at DC-12 — at 60 V Rated value	A	6
— at 110 V Rated value	A	3
• at DC-13 — at 24 V Rated value	A	10
— at 60 V Rated value	A	2
— at 110 V Rated value	A	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

Short-circuit:		
Design of the fuse link		
• 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
• for short-circuit protection of the auxiliary switch required		fuse gL/gG: 10 A

Installation/ mounting/ dimensions:		
mounting position		with vertical mounting surface +/- 180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

• Side-by-side mounting		Yes
Height	mm	57.5
Width	mm	45
Depth	mm	72
Required spacing		
• for grounded parts		
— at the side	mm	6

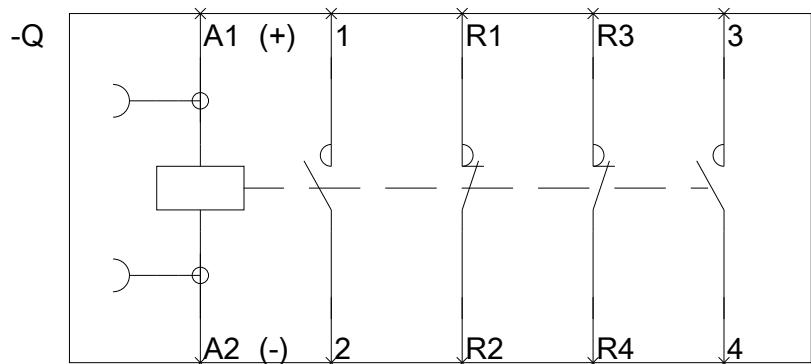
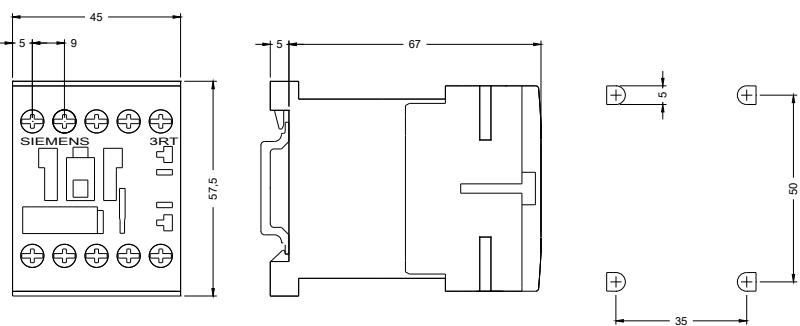
Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
• for main contacts		
— solid		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²)
— single or multi-stranded		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²)
— finely stranded 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)
— single or multi-stranded		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²)
— finely stranded 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

Safety related data:		
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	100
Protection against electrical shock		finger-safe

Mechanical data:		
Size of contactor		S00

Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-55 ... +80

Certificates/ approvals:		
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last modified:

11.03.2015