



Figure similar

CONTACTOR, AC-3, 5,5KW/400V, 2NO+2NC,
PERMANENT. JOINTED 24V DC, 3-POLE, SIZE S0,
SCREW TERMINAL FOR SUVA APPLICATIONS

product brand name		SIRIUS
Product designation		power contactor

General technical data:

Degree of pollution		3
Mechanical service life (switching cycles)		
• of the contactor typical		10 000 000
• 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		
• on the front		IP20
• of the terminal		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		3
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 ambient temperature 40 °C	A	40
Rated value		

— up to 690 V at ambient temperature 40 °C Rated value	A	40
— up to 690 V at ambient temperature 60 °C Rated value	A	35
• at AC-3 — at 400 V Rated value	A	12
• at AC-4 at 400 V Rated value	A	12.5
Operating current with 1 current path		
• at DC-1 — at 24 V Rated value	A	35
— at 110 V Rated value	A	4.5
• at DC-3 at DC-5 — at 24 V Rated value	A	20
— at 110 V Rated value	A	2.5
Operating current with 2 current paths in series		
• at DC-1 — at 24 V Rated value	A	35
— at 110 V Rated value	A	35
• at DC-3 at DC-5 — at 110 V Rated value	A	15
— at 24 V Rated value	A	35
Operating current with 3 current paths in series		
• at DC-1 — at 24 V Rated value	A	35
— at 110 V Rated value	A	35
• at DC-3 at DC-5 — at 110 V Rated value	A	35
— at 24 V Rated value	A	35
Operating power		
• at AC-1 at 400 V Rated value	kW	23
• at AC-2 at 400 V Rated value	kW	5.5
• at AC-4 at 400 V Rated value	W	5 500
Operating power		
• at AC-3 — at 400 V Rated value	kW	5.5
— at 500 V Rated value	kW	7.5
— at 690 V Rated value	kW	7.5
Control circuit/ Control:		
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		0.8 ... 1.1
Closing power of the magnet coil for DC	W	5.4
Holding power of the magnet coil for DC	W	5.4

Auxiliary circuit:

Number of NC contacts		
<ul style="list-style-type: none"> for auxiliary contacts — instantaneous contact 		2
Number of NO contacts		
<ul style="list-style-type: none"> for auxiliary contacts — instantaneous contact 		2
Operating current at AC-15		
<ul style="list-style-type: none"> at 230 V Rated value at 400 V Rated value 	A A	6 3
Operating current		
<ul style="list-style-type: none"> at DC-12 at 220 V Rated value at DC-13 at 220 V Rated value 	A A	1 0.3
Operating current		
<ul style="list-style-type: none"> at DC-12 — at 60 V Rated value — at 110 V Rated value at DC-13 — at 24 V Rated value — at 60 V Rated value — at 110 V Rated value 	A A A A A	6 3 10 2 1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

Short-circuit:

Design of the fuse link		
<ul style="list-style-type: none"> for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required 		fuse gL/gG: 63 A fuse gL/gG: 25 A fuse gL/gG: 10 A

Installation/ mounting/ dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
<ul style="list-style-type: none"> Side-by-side mounting 		Yes
Height	mm	85
Width	mm	45
Depth	mm	150
Required spacing		

- for grounded parts
- at the side

mm	6
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Connections/ Terminals:

Type of electrical connection		screw-type terminals screw-type terminals
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 		
Type of connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid — single or multi-stranded — finely stranded with core end processing • for AWG conductors for main contacts • for auxiliary contacts <ul style="list-style-type: none"> — solid — finely stranded with core end processing • for AWG conductors for auxiliary contacts 		2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²), max. 2x 10 mm ² 2x (1 ... 2,5 mm ²), 2x (2,5 ... 6 mm ²), max. 2x 10 mm ² 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) 2x (16 ... 12), 2x (14 ... 10), 1x 8 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 1x 12

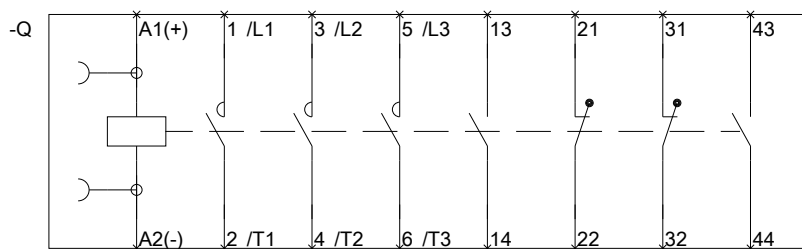
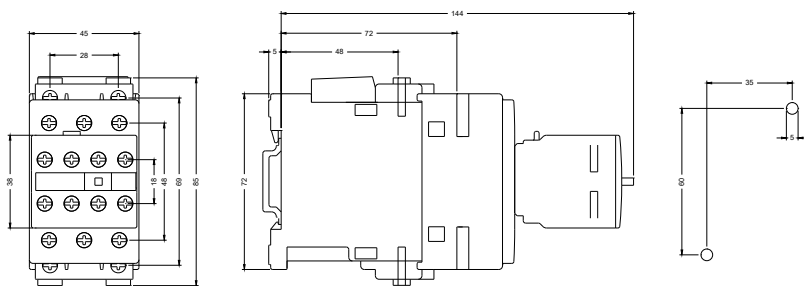
Mechanical data:

Size of contactor		S0
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Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
<ul style="list-style-type: none"> • during operation 	°C	-25 ... +60

Certificates/ approvals:



last modified:

11.03.2015