



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
Rated value	40

— 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
<b>Operating current with 1 current path</b>		
• 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
<b>Operating current with 2 current paths in series</b>		
• 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
<b>Operating current with 3 current paths in series</b>		
• 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
<b>Operating power</b>		
• 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
<b>Operating power</b>		
• 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:

<b>Type of voltage of the control supply voltage</b>		DC
<b>Control supply voltage for DC</b>		
• Rated value	V	24

<b>Operating range factor control supply voltage rated value of the magnet coil for DC</b>		0.8 ... 1.1
<b>Closing power of the magnet coil for DC</b>	W	5.4
<b>Holding power of the magnet coil for DC</b>	W	5.4

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

<b>Short-circuit:</b>		
<b>Design of the fuse link</b>		

- 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

<b>Installation/ mounting/ dimensions:</b>		
<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
• Side-by-side mounting		Yes
<b>Height</b>	mm	85
<b>Width</b>	mm	45
<b>Depth</b>	mm	150
<b>Required spacing</b>		

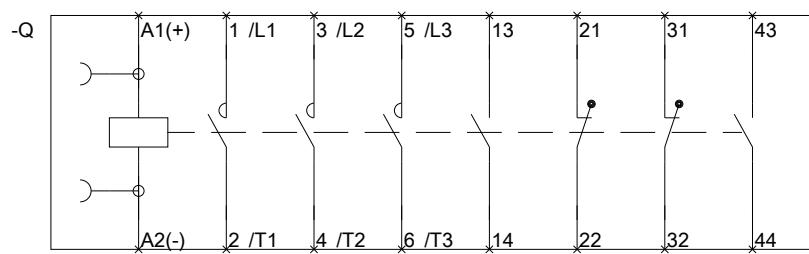
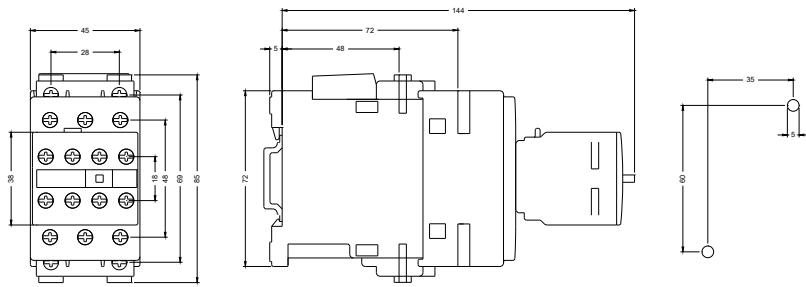
• for grounded parts — at the side	mm	6
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Connections/ Terminals:		
<b>Type of electrical connection</b>		
• for main current circuit — • for auxiliary and control current circuit		screw-type terminals screw-type terminals
<b>Type of connectable conductor cross-section</b>		
• for main contacts — solid — single or multi-stranded — finely stranded with core end processing		2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), max. 2x 10 mm <sup>2</sup> 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), max. 2x 10 mm <sup>2</sup> 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )
• for AWG conductors for main contacts		2x (16 ... 12), 2x (14 ... 10), 1x 8
• for auxiliary contacts — solid — finely stranded with core end processing		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 4 mm <sup>2</sup> ) 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for AWG conductors for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14), 1x 12

Mechanical data:		
<b>Size of contactor</b>		S0
Ambient conditions:		
<b>Installation altitude at height above sea level maximum</b>	m	2 000
<b>Ambient temperature</b>	°C	
• during operation		-25 ... +60

Certificates/ approvals:		
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last modified:

11.03.2015