



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

Figure similar

product brand name		SIRIUS
Product designation		power contactor

### General technical data:

<b>Insulation voltage</b>		
• Rated value	V	690
<b>Degree of pollution</b>		3
<b>Mechanical service life (switching cycles)</b>		
• 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
<b>Protection class IP</b>		
• on the front		IP20
<b>Equipment marking</b>		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

### Main circuit:

<b>Number of poles for main current circuit</b>		4
<b>Number of NC contacts for main contacts</b>		2
<b>Number of NO contacts for main contacts</b>		2
<b>Operating current</b>		
• 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	A	20
• at AC-2 at AC-3 at 400 V		
— per NO contact Rated value	A	12
— per NC contact Rated value	A	12
<b>Operating current with 1 current path</b>		
• at DC-1		
— at 24 V Rated value	A	20
— at 110 V Rated value	A	2.1
— at 220 V Rated value	A	0.8
— at 440 V Rated value	A	0.6
• at DC-3 at DC-5		
— at 24 V per NC contact Rated value	A	20
— at 24 V per NO contact Rated value	A	20
— at 110 V per NC contact Rated value	A	0.075
— at 110 V per NO contact Rated value	A	0.15
— at 220 V per NC contact Rated value	A	0.375
— at 220 V per NO contact Rated value	A	0.75
<b>Operating current with 2 current paths in series</b>		
• at DC-1		
— at 24 V Rated value	A	20
— at 110 V Rated value	A	12
— at 220 V Rated value	A	1.6
— at 440 V Rated value	A	0.8
• at DC-3 at DC-5		
— at 110 V per NC contact Rated value	A	0.175
— at 110 V per NO contact Rated value	A	0.35
— at 24 V per NC contact Rated value	A	20
— at 24 V per NO contact Rated value	A	20
<b>Operating power</b>		
• at AC-1 at 400 V Rated value	kW	13
<b>Operating power</b>		
• 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	kW	3
— at 230 V per NO contact Rated value	kW	3
— at 400 V per NC contact Rated value	kW	5.5
— at 400 V per NO contact Rated value	kW	5.5
<b>Control circuit/ Control:</b>		
<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>		0.85 ... 1.1
<b>Closing power of the magnet coil for DC</b>	W	3.3
<b>Holding power of the magnet coil for DC</b>	W	3.3
<b>Control version of the switch operating mechanism</b>		conventional

#### Auxiliary circuit:

<b>Number of NC contacts</b>		
• for auxiliary contacts		
— instantaneous contact		0
<b>Number of NO contacts</b>		
• for auxiliary contacts		
— instantaneous contact		0
<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)

#### Short-circuit:

<b>Design of the fuse link</b>		
• 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:

<b>mounting position</b>		with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
<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
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 <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 4 mm <sup>2</sup> )
— single or multi-stranded		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> )
— finely stranded with core end processing		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for AWG conductors for main contacts		2x (20 ... 16), 2x (18 ... 14), 1x 12
• for auxiliary contacts		
— solid		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> )
— single or multi-stranded		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> )
— finely stranded with core end processing		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

#### Safety related data:

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

#### Mechanical data:

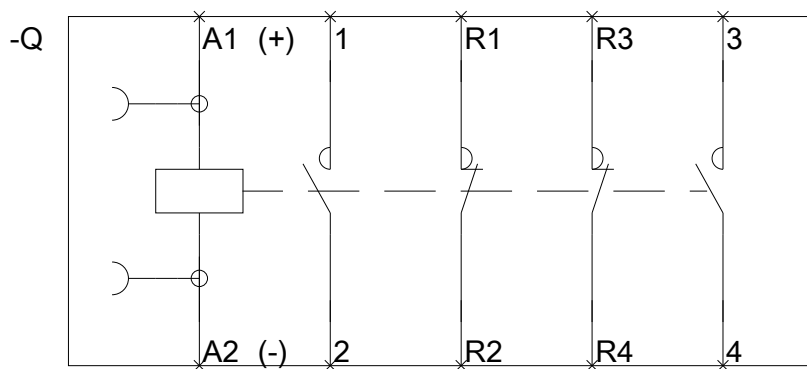
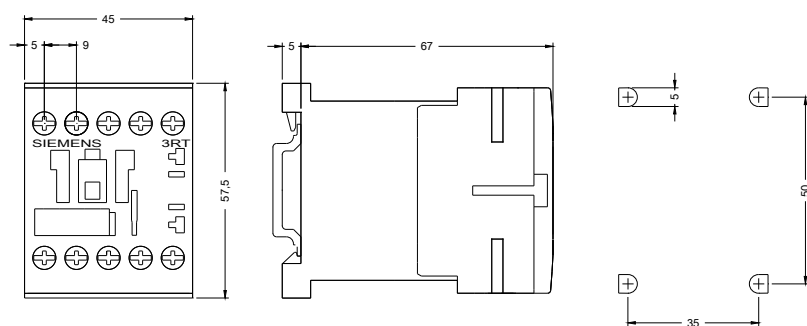
Size of contactor		S00
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#### Ambient conditions:

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:





last modified:

11.03.2015