



CONTACTOR, AC-3 4 KW/400 V, 1 NC, AC 24 V, 50/60 HZ, 3-POLE, SIZE S00, SCREW CONNECTION

Figure similar	
product brand name	SIRIUS
Product designation	power contactor
General technical data:	
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	
• 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	22 A
Rated value	

— up to 690 V at ambient temperature 40 °C Rated value	22 A
— up to 690 V at ambient temperature 60 °C Rated value	20 A
• at AC-3 — at 400 V Rated value	9 A
• at AC-4 at 400 V Rated value	8.5 A
Operating current with 1 current path	
• at DC-1 — at 24 V Rated value	20 A
— at 110 V Rated value	2.1 A
• at DC-3 at DC-5 — at 24 V Rated value	20 A
— at 110 V Rated value	0.15 A
Operating current with 2 current paths in series	
• at DC-1 — at 24 V Rated value	20 A
— at 110 V Rated value	12 A
• at DC-3 at DC-5 — at 110 V Rated value	0.35 A
— at 24 V Rated value	20 A
Operating current with 3 current paths in series	
• at DC-1 — at 24 V Rated value	20 A
— at 110 V Rated value	20 A
• at DC-3 at DC-5 — at 110 V Rated value	20 A
— at 24 V Rated value	20 A
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	0.7 W
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage with AC	
• at 50 Hz Rated value	24 V
• at 60 Hz Rated value	24 V
• Rated value	50 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Operating range factor control supply voltage rated value of the magnet coil with AC	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	0.85 ... 1.1

Auxiliary circuit:

Number of NC contacts • for auxiliary contacts — instantaneous contact	1
Number of NO contacts • for auxiliary contacts — instantaneous contact	0
Operating current at AC-15 • at 230 V Rated value • at 400 V Rated value	6 A 3 A
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 — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	fuse gL/gG: 35 A fuse gL/gG: 20 A fuse gL/gG: 10 A
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Installation/ mounting/ dimensions:

Mounting type • Side-by-side mounting	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes
Height	57.5 mm
Width	45 mm
Depth	72 mm
Required spacing • for grounded parts — at the side	6 mm

Connections/ Terminals:

Type of electrical connection • for main current circuit • for auxiliary and control current circuit	screw-type terminals screw-type terminals
Type of connectable conductor cross-section • for main contacts — solid — single or multi-stranded — finely stranded with core end processing • for AWG conductors for main contacts • for auxiliary contacts — solid — finely stranded with core end processing	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), 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 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)

- for AWG conductors for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14), 1x 12

Mechanical data:

Size of contactor S00

Ambient conditions:

Installation altitude at height above sea level maximum 2 000 m

Ambient temperature

- during operation

-25 ... +60 °C

Certificates/ approvals:

General Product Approval

Functional
Safety/Safety
of Machinery

[Type Examination](#)



CCC



CSA



UL



UR



Declaration of
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Cax online generator

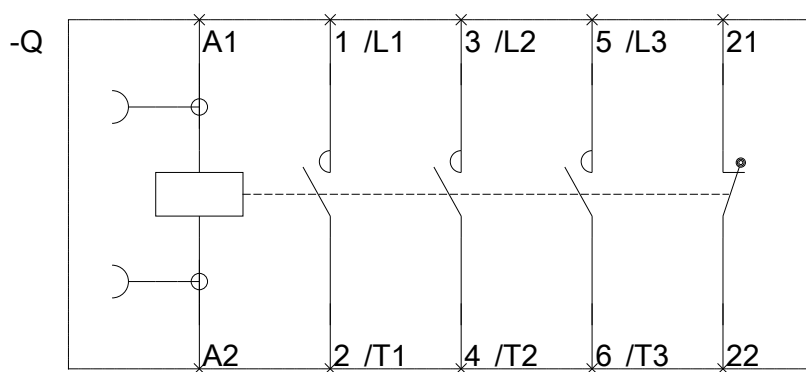
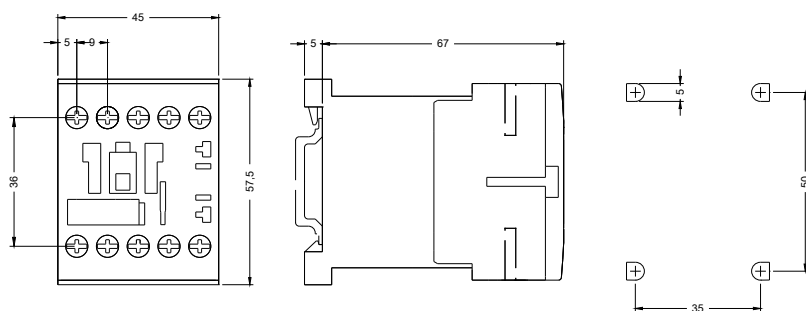
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10161AB02>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10161AB02>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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14.05.2015