

CONTACTOR, AC-3 22 KW/400 V, DC 24 V, 3-POLE, SIZE S2, SCREW CONNECTION



Figure similar

product brand name	SIRIUS
Product designation	power contactor
General technical data:	
Size of contactor	S2
Insulation voltage	
• Rated value	690 V
Surge voltage resistance Rated value	6 kV
Protection class IP	
• on the front	IP00
• of the terminal	IP00
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
Ambient conditions:	

Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C
Main circuit:	
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	60 A
• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	60 A
— at ambient temperature 60 °C Rated value	55 A
• at AC-3	
— at 400 V Rated value	50 A
— at 690 V Rated value	24 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	16 mm ²
• at 40 °C minimum permissible	16 mm ²
Operating current for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	24 A
• at 690 V Rated value	12.6 A
Operating current	
• at 1 current path at DC-1	
— at 24 V Rated value	55 A
— at 110 V Rated value	4.5 A
• with 2 current paths in series at DC-1	
— at 24 V Rated value	55 A
— at 110 V Rated value	25 A
• with 3 current paths in series at DC-1	
— at 24 V Rated value	55 A
— at 110 V Rated value	55 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V Rated value	35 A
— at 110 V Rated value	2.5 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	25 A
— at 24 V Rated value	55 A

• with 3 current paths in series at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value	55 A 55 A
Operating power	
• at AC-1 — at 230 V at 60 °C Rated value — at 400 V Rated value — at 690 V Rated value — at 690 V at 60 °C Rated value • at AC-2 at 400 V Rated value • at AC-3 — at 230 V Rated value — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value	22 kW 38 kW 66 kW 66 kW 22 kW 15 kW 22 kW 30 kW 22 kW
Operating power for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value • at 690 V Rated value	12.6 kW 11.4 kW
Thermal short-time current limited to 10 s	400 A
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	5 W
No-load switching frequency	
• at DC	1 500 1/h
Operating frequency	
• at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum	1 000 1/h 400 1/h 800 1/h 300 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
• Rated value	24 V
Operating range factor control supply voltage rated value of the magnet coil at DC	0.8 ... 1.1
Closing power of the magnet coil at DC	13.3 W
Holding power of the magnet coil at DC	13.3 W
Closing delay	
• at DC	60 ... 100 ms
Arcing time	10 ... 15 ms
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-12 maximum	10 A
Operating current at AC-15	
• at 230 V Rated value	6 A
• at 400 V Rated value	3 A
Operating current at DC-12	
• at 60 V Rated value	6 A
• at 110 V Rated value	3 A
• at 220 V Rated value	1 A
Operating current at DC-13	
• at 24 V Rated value	10 A
• at 60 V Rated value	2 A
• at 110 V Rated value	1 A
• at 220 V Rated value	0.3 A
Contact reliability of the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings:

Contact rating of the auxiliary contacts acc. to UL	A600 / Q600
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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: 160 A fuse gL/gG: 80 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
• Side-by-side mounting	Yes
Height	112 mm
Width	55 mm
Depth	130 mm
Required spacing	
• for grounded parts — at the side	6 mm

Certificates/ approvals:

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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CSA



UL



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GL



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Cax online generator

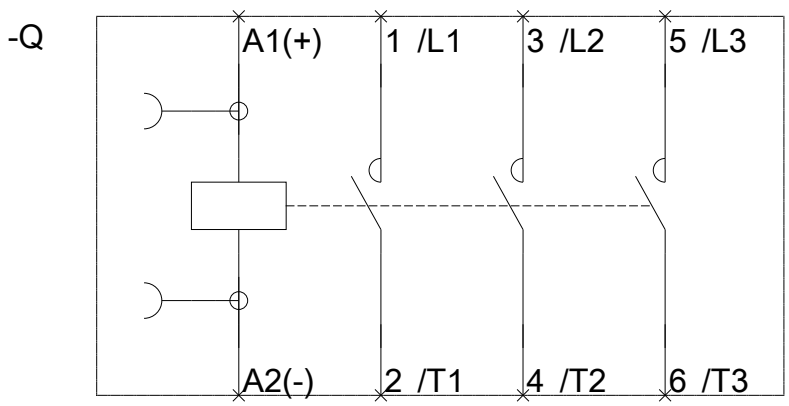
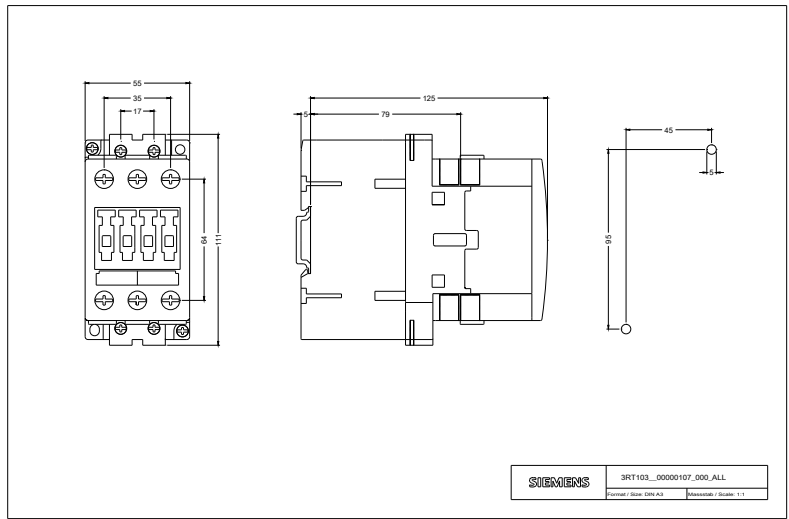
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10361BB40>

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

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