



Figure similar

CONTACTOR, AC-3 22 KW/400 V, DC 110 V, 3-POLE, SIZE S2, SCREW CONNECTION

product brand name	SIRIUS
Product designation	power contactor
General technical data:	
Insulation voltage	
• Rated value	690 V
Degree of pollution	3
Surge voltage resistance Rated value	6 kV
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
Thermal short-time current restricted to 10 s	400 A
Protection class IP	
• on the front	IP00
• of the terminal	IP00
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 Rated value — up to 690 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value • at AC-3 — at 400 V Rated value — at 690 V Rated value • at AC-4 at 400 V Rated value	60 A 60 A 55 A 50 A 24 A 41 A
Operating current with 1 current path • at DC-1 — at 24 V Rated value — at 110 V Rated value • at DC-3 at DC-5 — at 24 V Rated value — at 110 V Rated value	55 A 4.5 A 35 A 2.5 A
Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value — at 110 V Rated value • at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value	55 A 25 A 25 A 55 A
Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value — at 110 V Rated value • at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value	55 A 55 A 55 A 55 A
Operating power • at AC-1 — at 230 V at 60 °C Rated value — at 690 V at 60 °C Rated value	22 kW 66 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
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	5 W

Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	800 1/h
• at AC-4 maximum	300 1/h
No-load switching frequency	
• for DC	1 500 1/h

Control circuit/ Control:	
Type of voltage of the control supply voltage	DC
Control supply voltage for DC	
• Rated value	110 V
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	13.3 W
Holding power of the magnet coil for DC	13.3 W

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-15	
• at 230 V Rated value	6 A
• at 400 V Rated value	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

Short-circuit:	
Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of assignment 1 required	fuse gL/gG: 160 A
— with type of assignment 2 required	fuse gL/gG: 80 A
• for short-circuit protection of the auxiliary switch required	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

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 — stranded — single or multi-stranded — finely stranded with core end processing — finely stranded without core end processing • for AWG conductors for main contacts • for auxiliary contacts — solid — finely stranded with core end processing • for AWG conductors for auxiliary contacts	2x (0.75 ... 16 mm ²) 2x (0.75 ... 25 mm ²) 2x (0,75 ... 16 mm ²) 2x (0.75 ... 16 mm ²) 2x (0.75 ... 16 mm ²) 2x (18 ... 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

Mechanical data:

Size of contactor	S2
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Ambient conditions:

Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
• during operation • during storage	-25 ... +60 °C -55 ... +80 °C

Certificates/ approvals:

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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[Type Examination](#)



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Test Certificates	Shipping Approval
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[Type Test Certificates/Test Report](#)



Shipping Approval	other
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Cax online generator

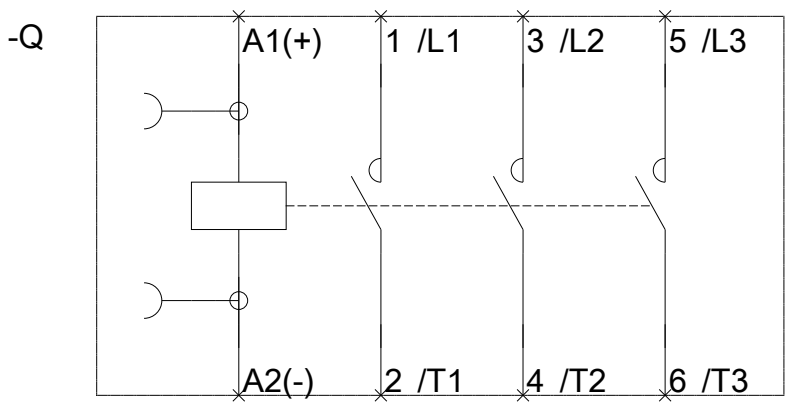
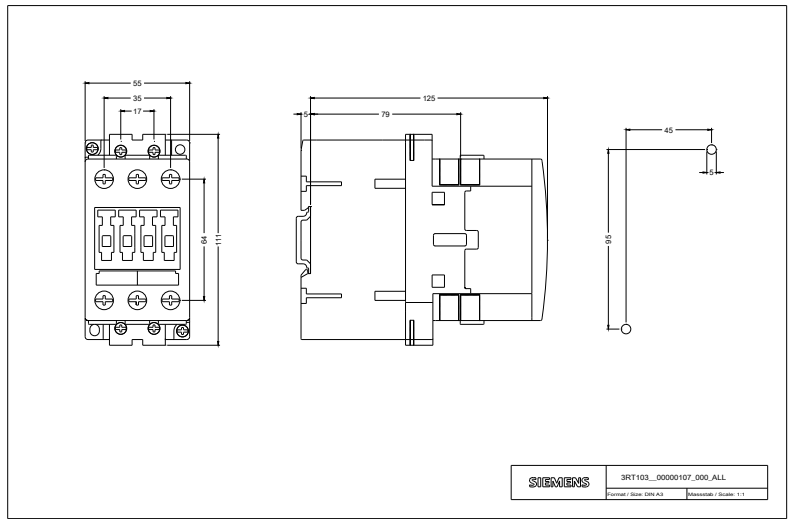
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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