

CONTACTOR 3-PH 18.5 KW/400 V, 110 V AC, 50 HZ, 3-POLE, SIZE S2, MAIN CUR.: SCREW CONNECTION, MAIN CUR.: CAGE CLAMP, AUX. SWITCH 2S+2OE LATERAL LEFT + RIGHT TO DIN EN 50012 (22E),



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	40 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	18.5 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 18.5 kW 11 kW 18.5 kW 22 kW 22 kW
Operating power for ≥ 200000 operating cycles at AC-4 • at 400 V Rated value • at 690 V Rated value	9.5 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	2.6 W
No-load switching frequency • at AC	5 000 1/h
Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum	1 200 1/h 600 1/h 1 000 1/h 300 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC • at 50 Hz Rated value • Rated value	110 V 50 Hz
Operating range factor control supply voltage rated value of the magnet coil at AC • at 50 Hz	0.8 ... 1.1
Apparent pick-up power of the magnet coil at AC	145 V·A
Inductive power factor with closing power of the coil	0.79
Apparent holding power of the magnet coil at AC	12.5 V·A
Inductive power factor with the holding power of the coil	0.36

Closing delay	
• at AC	10 ... 24 ms
Opening delay	
• at AC	7 ... 20 ms
Arcing time	10 ... 15 ms

Auxiliary circuit:

Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	2
Number of NO contacts	
• for auxiliary contacts	
— instantaneous contact	2
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	fuse gL/gG: 125 A
— with type of assignment 2 required	fuse gL/gG: 63 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	75 mm

Depth	115 mm
Required spacing	
• for grounded parts — at the side	6 mm

Certificates/ approvals:

General Product Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
 CCC	 CSA	 EAC	 UL	Baumusterbescheinigung	 EG-Konf.

Test Certificates	Shipping Approval				
Typprüfbescheinigung/Werkszeugnis	spezielle Prüfbescheinigung	 ABS	 DNV	 GL	 RINA

Shipping Approval	other		
 RMRS	Bestätigungen	Umweltbestätigung	sonstig

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

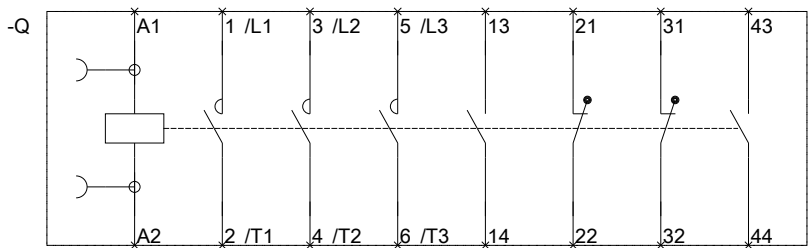
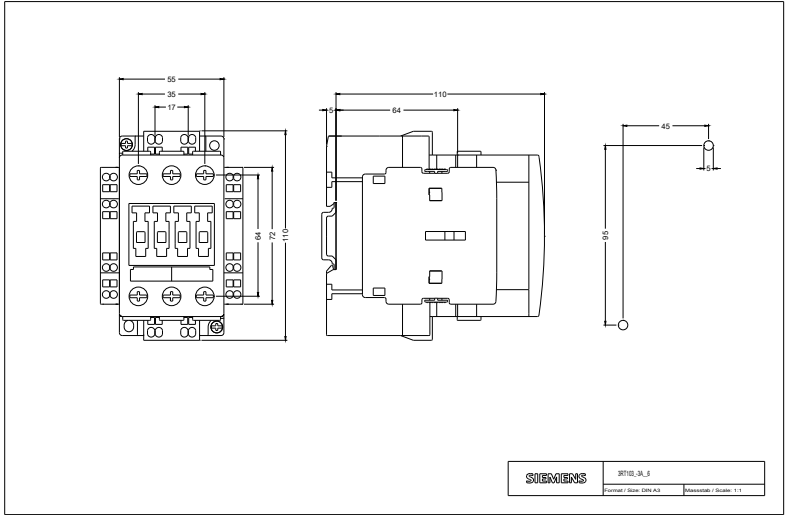
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10353AF06>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10353AF06>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10353AF06&lang=en



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