



Figure similar

CONTACTOR, AC-3 18.5 KW/400 V, AC 24 V, 50 HZ, 3-POLE, SIZE S2, CAGE CLAMP

product brand name		SIRIUS
Product designation		power contactor

General technical data:

Insulation voltage		
• Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
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	A	400
Protection class IP		
• on the front		IP20
• 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	A	60
	A	60
	A	55
	A	40
	A	24
	A	35
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	A	55
	A	4.5
	A	35
	A	2.5
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	A	55
	A	25
	A	25
	A	55
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	A	55
	A	55
	A	55
	A	55
Operating power		
• at AC-1 at 400 V Rated value • at AC-2 at 400 V Rated value • at AC-4 at 400 V Rated value	kW	38
	kW	18.5
	W	18 500
Operating power		
• at AC-1 — at 230 V at 60 °C Rated value — at 690 V at 60 °C Rated value — at 690 V Rated value • at AC-3	kW	22
	kW	66
	kW	66

— at 230 V Rated value	kW	11
— at 400 V Rated value	kW	18.5
— at 500 V Rated value	kW	22
— at 690 V Rated value	kW	22
Operating power for ≥ 200000 operating cycles at AC-4		
• at 400 V Rated value	kW	9.5
• at 690 V Rated value	kW	11.4
Operating frequency		
• at AC-3 maximum	1/h	1 000

Control circuit/ Control:

Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
• at 50 Hz Rated value	V	24
• Rated value	Hz	50
Operating range factor control supply voltage rated value of the magnet coil with AC		
• at 50 Hz		0.8 ... 1.1
Apparent pick-up power of the magnet coil with AC	V·A	145
Apparent holding power of the magnet coil with AC	V·A	12.5
Inductive power factor		
• with closing power of the coil		0.79
• with the holding power of the coil		0.36

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	A	6
• at 400 V Rated value	A	3
Operating current		
• at DC-12 at 220 V Rated value	A	1
• at DC-13 at 220 V Rated value	A	0.3
Operating current		
• 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
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: 125 A fuse gL/gG: 63 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	mm	112
Width	mm	55
Depth	mm	115
Required spacing		
- for grounded parts - at the side	mm	6

Connections/ Terminals:

Type of electrical connection		
- for main current circuit - for auxiliary and control current circuit		screw-type terminals Cage Clamp 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 - finely stranded without core end processing		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 (0.25 ... 2.5 mm ²) 2x (0.25 ... 1.5 mm ²) 2x (0.25 ... 2.5 mm ²)

- for AWG conductors for auxiliary contacts

2x (24 ... 14)

Mechanical data:

Size of contactor

S2

Ambient conditions:

Installation altitude at height above sea level maximum

m

2 000

Ambient temperature

- during operation
- during storage

°C

-25 ... +60

°C

-55 ... +80

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



[Type Examination](#)



EG-Konf.

[Special Test Certificate](#)

Test Certificates

Shipping Approval

[Type Test Certificates/Test Report](#)



ABS



DNV



GL



LRS



RINA

Shipping Approval

other



RMRS

[other](#)

[Environmental Confirmations](#)

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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

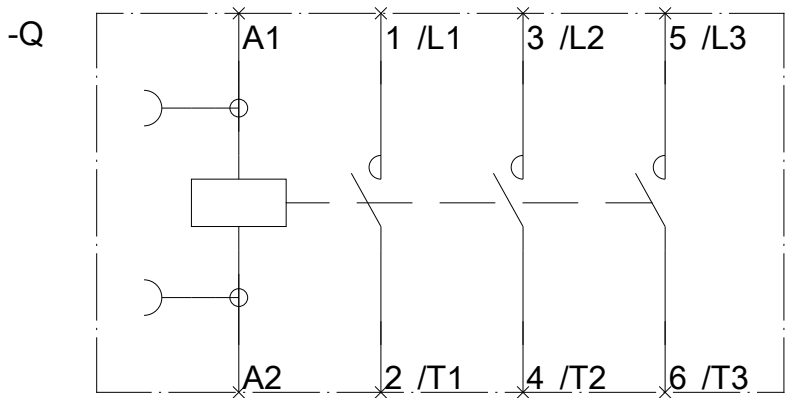
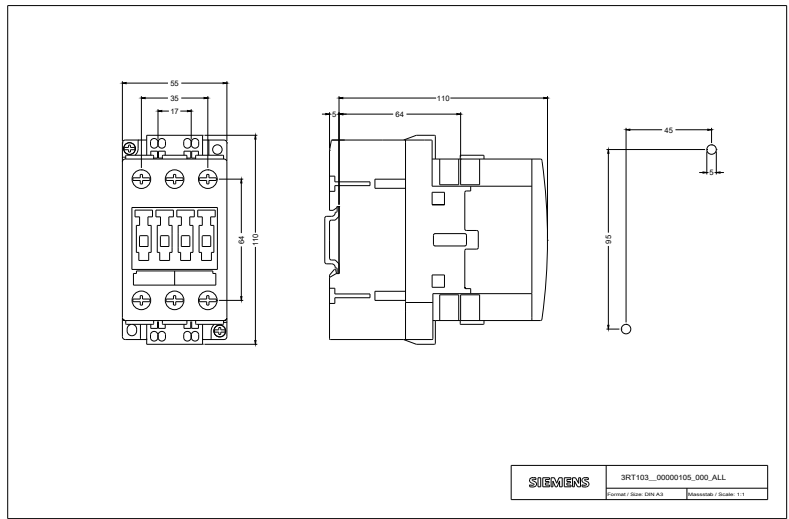
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10353AB00>

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

<http://support.automation.siemens.com/WW/view/en/3RT10353AB00/all>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10353AB00&lang=en



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