



CONTACTOR, AC-3 45 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S3, SCREW CONNECTION

Figure similar

product brand name		SIRIUS
Product designation		power contactor

General technical data:

Insulation voltage		
• Rated value	V	1 000
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	760
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	A	120
	A	120
	A	100
	A	95
	A	58
	A	80
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	100
	A	9
	A	40
	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	100
	A	100
	A	100
	A	100
	A	100
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	100
	A	100
	A	100
	A	100
	A	100
Operating power		
• at AC-1 — at 230 V at 60 °C Rated value — at 690 V at 60 °C Rated value	kW	38
	kW	114
Operating power for ≥ 200000 operating cycles at AC-4		
• at 400 V Rated value • at 690 V Rated value	kW	22
	kW	25.4
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor		
	W	10.8

Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum	1/h	900
	1/h	350
	1/h	850
	1/h	250
No-load switching frequency • with AC	1/h	5 000

Control circuit/ Control:

Type of voltage of the control supply voltage		AC
Control supply voltage with AC • at 50 Hz Rated value • Rated value	V Hz	230 50
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz		0.8 ... 1.1

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 • at 400 V Rated value	A A	6 3
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: 250 A fuse gL/gG: 160 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 and 75 mm standard mounting rail Yes
Height	mm	146
Width	mm	70

Depth	mm	139
Required spacing		
• for grounded parts		
— at the side	mm	6

Connections/ Terminals:

Type of electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
• for main contacts		
— solid		2x (2.5 ... 16 mm ²)
— stranded		2x (10 ... 50 mm ²)
— single or multi-stranded		2x (2,5 ... 16 mm ²)
— finely stranded with core end processing		2x (2.5 ... 35 mm ²)
— finely stranded without core end processing		2x (10 ... 35 mm ²)
• for AWG conductors for main contacts		2x (10 ... 1/0)
• for auxiliary contacts		
— solid		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²)
— finely stranded with core end processing		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		S3
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Ambient conditions:

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

Certificates/ approvals:

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



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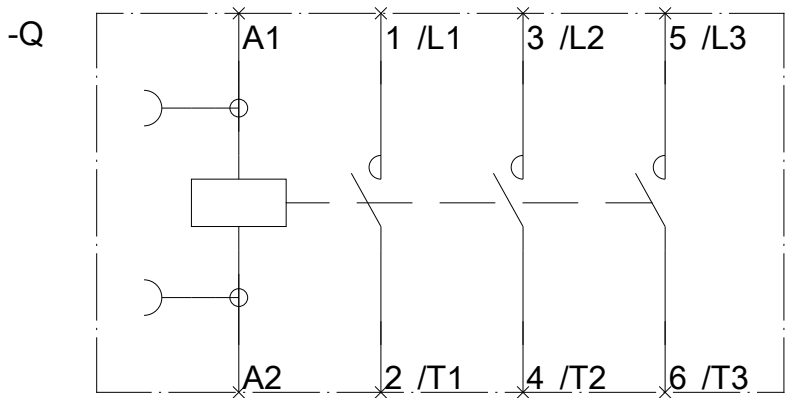
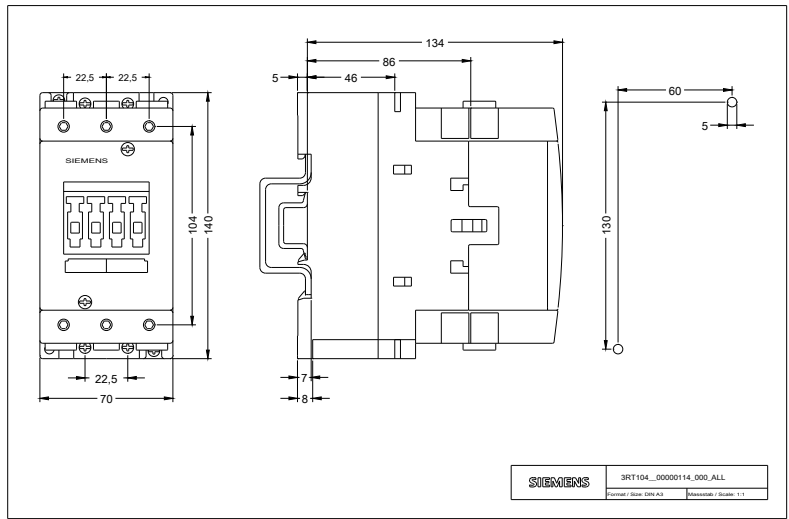
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