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Data sheet 3RT1016-2BB41



Figure similar

CONTACTOR, AC-3 4 KW/400 V, 1 NO, DC 24 V, 3-POLE, SIZE S00, CAGE CLAMP

product brand name	SIRIUS
Product designation	power contactor

General technical data:

Size of contactor	S00
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Degree of pollution	3
Mechanical service life (switching cycles)	
• of the contactor typical	30 000 000
• 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

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	22 A

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• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	22 A
— at ambient temperature 60 °C Rated value	20 A
• at AC-3	
— at 400 V Rated value	9 A
Operating current	
• with 1 current path at DC-1	
— at 24 V Rated value	20 A
— at 110 V Rated value	2.1 A
• with 2 current paths in series at DC-1	
— at 24 V Rated value	20 A
— at 110 V Rated value	12 A
• with 3 current paths in series at DC-1	
— at 24 V Rated value	20 A
— at 110 V Rated value	20 A
Operating current	
• with 1 current path at DC-3 at DC-5	
— at 24 V Rated value	20 A
— at 110 V Rated value	0.15 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	0.35 A
— at 24 V Rated value	20 A
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	20 A
— at 24 V Rated value	20 A
Operating power	
• at AC-1	
— at 400 V Rated value	13 kW
• at AC-2 at 400 V Rated value	4 kW
• at AC-3	
— at 400 V Rated value	4 kW
— at 500 V Rated value	4.5 kW
— at 690 V Rated value	5.5 kW
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	0.7 W

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	0.85 ... 1.1

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Closing power of the magnet coil at DC	3.3 W
Holding power of the magnet coil for DC	3.3 W
Auxiliary circuit:	
Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	0
Number of NO contacts	
• for auxiliary contacts	
— instantaneous contact	1
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)
Short-circuit:	
Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of assignment 1 required	fuse gL/gG: 35 A
— with type of assignment 2 required	fuse gL/gG: 20 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	60 mm
Width	45 mm
Depth	73 mm
Required spacing	
• for grounded parts	
— at the side	6 mm
Connections/ Terminals:	

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Type of electrical connection	
• for main current circuit	Cage Clamp terminals
• for auxiliary and control current circuit	Cage Clamp terminals
Type of connectable conductor cross-section	
• for main contacts	
— solid	2x (0.25 ... 2.5 mm²)
— single or multi-stranded	2x (0,25 ... 2,5 mm²)
— finely stranded with core end processing	2x (0.25 ... 1.5 mm²)
— finely stranded without core end processing	2x (0.25 ... 2.5 mm²)
• for AWG conductors for main contacts	2x (24 ... 14)
Type of connectable conductor cross-section	
• for auxiliary contacts	
— solid	2x (0.25 ... 2.5 mm²)
— finely stranded with core end processing	2x (0.25 ... 1.5 mm²)
— finely stranded without core end processing	2x (0.25 ... 2.5 mm²)
• for AWG conductors for auxiliary contacts	2x (24 ... 14)

Certificates/ approvals:

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General Product Approval					Functional Safety/Safety of Machinery
CCC	CSA		UR	UL	Baumusterbescheinigung

Declaration of Conformity	Test Certificates		Shipping Approval		
EG-Konf.	spezielle Prüfbescheinigungen	sonstig	ABS	DNV	GL

Shipping Approval				other	
LRS	PRS	RINA	RMRS	Bestätigungen	sonstig

other
Umweltbestätigung

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Information- and Downloadcenter (Catalogs, Brochures,…)
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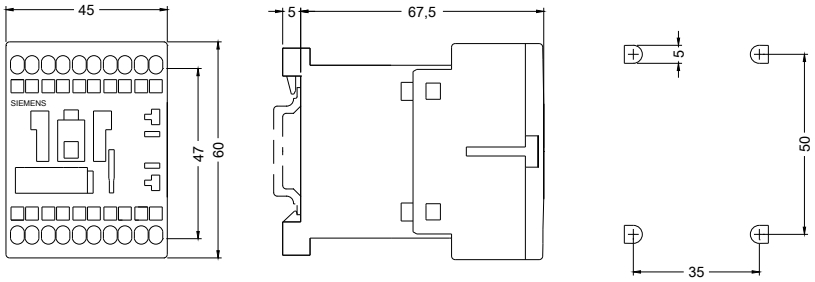
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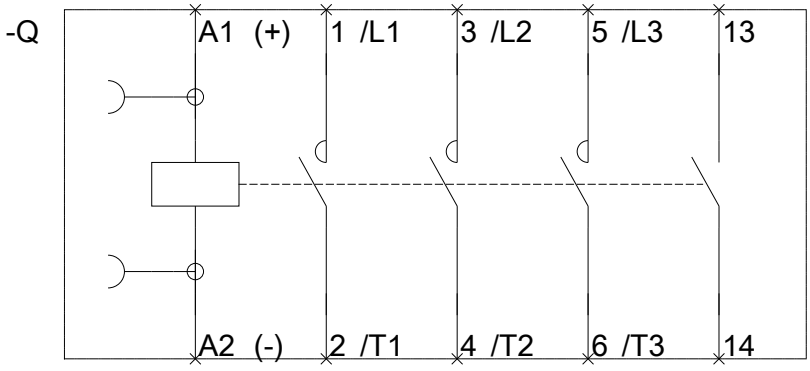
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