SIEMENS

Data sheet

3RT1035-1BB44



CONTACTOR, AC-3 18.5 KW/400 V, DC 24 V, 3-POLE, 2 NO + 2 NC, SIZE S2, SCREW CONNECTION

i igure sirilidi			
product brand name	SIRIUS		
Product designation	power contactor		
General technical data:			
Size of contactor	S2		
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 	10 000 000		
block typical			
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		
Ambient conditions:			
Installation altitude at height above sea level	2 000 m		
maximum			
Ambient temperature			
 during operation 	-25 +60 °C		

-55 ... +80 °C • during storage 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 Connectable conductor cross-section in main circuit at AC-1 16 mm² • at 60 °C minimum permissible 16 mm² • at 40 °C minimum permissible **Operating current** • at AC-1 at 400 V 60 A - at ambient temperature 40 °C Rated value • at AC-1 up to 690 V 60 A - at ambient temperature 40 °C Rated value 55 A - at ambient temperature 60 °C Rated value • at AC-3 40 A - at 400 V Rated value - at 690 V Rated value 24 A • at AC-4 at 400 V Rated value 35 A Operating current for ≥ 200000 operating cycles at AC-4 18.5 A • at 400 V Rated value 12.6 A • at 690 V Rated value **Operating current** • with 1 current path at DC-1 55 A - at 24 V Rated value 4.5 A - at 110 V Rated value • with 2 current paths in series at DC-1 55 A - at 24 V Rated value 25 A - at 110 V Rated value with 3 current paths in series at DC-1 55 A - at 24 V Rated value 55 A - at 110 V Rated value **Operating current** • with 1 current path at DC-3 at DC-5 35 A - at 24 V Rated value - 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 55 A - at 24 V Rated value • with 3 current paths in series at DC-3 at DC-5

— at 110 V Rated value	55 A
— at 24 V Rated value	55 A
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value	22 kW
— at 690 V at 60 °C Rated value	66 kW
Operating power for \geq 200000 operating cycles at AC-4	
● at 400 V Rated value	9.5 kW
• at 690 V Rated value	11.4 kW
Thermal short-time current restricted to 10 s	400 A
Active power loss at AC-3 at 400 V for rated value of	2.6 W
the operating current per conductor	
No-load switching frequency	
• for DC	1 500 1/h
Operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	DC
Control supply voltage for DC	
Rated value	24 V
Operating range factor control supply voltage rated	0.8 1.1
value of the magnet coil for DC	
Closing power of the magnet coil for DC	13.3 W
Holding power of the magnet coil for DC	13.3 W
Closing delay	
• for DC	60 100 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
Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 at 230 V Rated value 	2 10 A 6 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)
JL/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: 125 A
 — with type of assignment 2 required 	fuse gL/gG: 63 A
 for short-circuit protection of the auxiliary switch 	fuse gL/gG: 10 A
required	
nstallation/ 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 179 mm
Depth Required spacing	
Required spacing	
 for grounded parts 	6 mm
	6 mm
 for grounded parts — at the side Connections/ Terminals: 	6 mm
for grounded parts — at the side Connections/ Terminals: Type of electrical connection	
 for grounded parts at the side Connections/ Terminals: Type of electrical connection for main current circuit 	screw-type terminals
 for grounded parts at the side Connections/ Terminals: Type of electrical connection for main current circuit for auxiliary and control current circuit 	
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 for grounded parts at the side Connections/ Terminals: Type of electrical connection for main current circuit for auxiliary and control current circuit Type of connectable conductor cross-section 	screw-type terminals screw-type terminals 2x (0.75 16 mm ²)
 for grounded parts at the side Connections/ Terminals: Type of electrical connection for main current circuit for auxiliary and control current circuit Type of connectable conductor cross-section for main contacts 	screw-type terminals screw-type terminals 2x (0.75 16 mm ²) 2x (0.75 25 mm ²)
 for grounded parts at the side Connections/ Terminals: Type of electrical connection for main current circuit for auxiliary and control current circuit Type of connectable conductor cross-section for main contacts solid 	screw-type terminals screw-type terminals 2x (0.75 16 mm ²) 2x (0.75 25 mm ²) 2x (0,75 16 mm ²)
 for grounded parts at the side Connections/ Terminals: Type of electrical connection for main current circuit for auxiliary and control current circuit Type of connectable conductor cross-section for main contacts solid stranded 	screw-type terminals screw-type terminals 2x (0.75 16 mm ²) 2x (0.75 25 mm ²)

 for AWG conductors for main contacts 	2x (18 2)
Type of connectable conductor cross-section	
 for auxiliary contacts 	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12

ertificates/ approvals:								
General Produc	ct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates			
CSA		EHC	Type Examination	EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>			
Test Certificates	Shipping Approval							
Special Test Certificate	ABS	ĴÅ DNV DNV	GL	Lloyd's Register LRS	RINA			
Shipping Approval	other							
RMRS	Confirmation	Environmental Confirmations	other					

urther information

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Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

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