SIEMENS

Data sheet

3RT1036-1BB44-3MA0



CONTACTOR, AC-3 22 KW/400 V, DC 24 V, 3-POLE, 2 NO + 2 NC, SIZE S2, SCREW CONNECTION

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-	5 000 000	
compatible auxiliary switch block typical		
• of the contactor with added auxiliary switch	10 000 000	
block typical		

Ambient conditions:		
Installation altitude at height above sea level	2 000 m	
maximum		
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	50 A	
— at 690 V Rated value	24 A	
Connectable conductor cross-section in main circuit		
at AC-1		
 at 60 °C minimum permissible 	16 mm²	
• at 40 °C minimum permissible	16 mm²	
Operating current for ≥ 200000 operating cycles at AC-4		
• at 400 V Rated value	24 A	
• at 690 V Rated value	12.6 A	
Operating current		
• with 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		
 with 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	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 400 V Rated value	38 kW	

— at 690 V Rated value	66 kW
— at 690 V at 60 °C Rated value	66 kW
• at AC-2 at 400 V Rated value	22 kW
• at AC-3	
— at 230 V Rated value	15 kW
— at 400 V Rated value	22 kW
— at 500 V Rated value	30 kW
— at 690 V Rated value	22 kW
Operating power for ≥ 200000 operating cycles at	
AC-4	
• at 400 V Rated value	12.6 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 the operating current per conductor	5 W
No-load switching frequency	
• at DC	1 500 1/h
Operating frequency	, 555 ///
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	800 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control:	20
Type of voltage of the control supply voltage	DC
One final annual translation of DO	
Control supply voltage at DC	24.1/
Rated value	24 V
Rated value Operating range factor control supply voltage rated	24 V 0.8 1.1
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC	
Rated value Operating range factor control supply voltage rated	0.8 1.1
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC	0.8 1.1 13.3 W
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC	0.8 1.1 13.3 W
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay	0.8 1.1 13.3 W 13.3 W
 Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay at DC 	0.8 1.1 13.3 W 13.3 W
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay at DC Opening delay	0.8 1.1 13.3 W 13.3 W 60 100 ms
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay at DC Opening delay at DC Arcing time	0.8 1.1 13.3 W 13.3 W 60 100 ms
 Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay at DC Opening delay at DC 	0.8 1.1 13.3 W 13.3 W 60 100 ms
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay at DC Opening delay at DC Arcing time Auxiliary circuit:	0.8 1.1 13.3 W 13.3 W 60 100 ms
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay at DC Opening delay at DC Arcing time Auxiliary circuit: Number of NC contacts	0.8 1.1 13.3 W 13.3 W 60 100 ms
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay at DC Opening delay at DC Arcing time Auxiliary circuit: Number of NC contacts for auxiliary contacts	0.8 1.1 13.3 W 13.3 W 60 100 ms 20 25 ms 10 15 ms
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay at DC Opening delay at DC Arcing time Auxiliary circuit: Number of NC contacts for auxiliary contacts — instantaneous contact	0.8 1.1 13.3 W 13.3 W 60 100 ms 20 25 ms 10 15 ms
Rated value Operating range factor control supply voltage rated value of the magnet coil at DC Closing power of the magnet coil at DC Holding power of the magnet coil for DC Closing delay at DC Opening delay at DC Arcing time Auxiliary circuit: Number of NC contacts instantaneous contact Number of NO contacts	0.8 1.1 13.3 W 13.3 W 60 100 ms 20 25 ms 10 15 ms

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

Short-circuit:

Design of the fuse link

• for short-circuit protection of the main circuit

fuse gL/gG: 160 A - with type of assignment 1 required fuse gL/gG: 80 A - with type of assignment 2 required fuse gL/gG: 10 A

• for short-circuit protection of the auxiliary switch required

Installation/ mounting/ dimensions: Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes • Side-by-side mounting Height 112 mm Width 55 mm Depth 179 mm Required spacing • for grounded parts 6 mm - at the side

Connections/ Terminals: Type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control current circuit Type of connectable conductor cross-section • for main contacts 2x (0.75 ... 16 mm²) - solid 2x (0.75 ... 25 mm²) - stranded

2x (0,75 ... 16 mm²) - single or multi-stranded 2x (0.75 ... 16 mm²) - finely stranded with core end processing 2x (0.75 ... 16 mm²) - finely stranded without core end processing 2x (18 ... 2) • for AWG conductors for main contacts 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) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing 2x (20 ... 16), 2x (18 ... 14), 1x 12 • for AWG conductors for auxiliary contacts

(`Artiticatae/	annrovale:
Certificates/	appiovais.

General Prod	uct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
()	(F)	EAC	Baumusterbescheini gung	EG-Konf.	Typprüfbescheinigu ng/Werkszeugnis

Test	Shipping Approval
Certificates	

spezielle Prüfbescheinigunge











Railway **Shipping Approval** other Bestätigungen





sonstig

Umweltbestätigung

Bestätigungen

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

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

Industry Mall (Online ordering system)

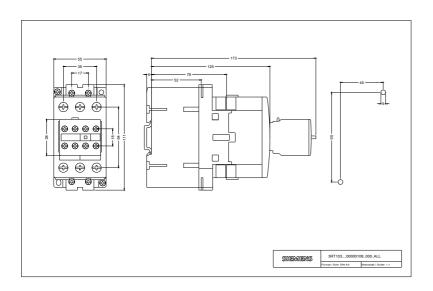
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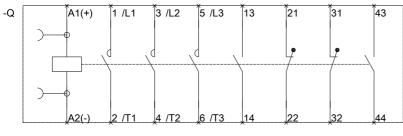
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10361BB443MA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT10361BB443MA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10361BB443MA0&lang=en





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