SIEMENS

Data sheet

3RT1036-1BE44

Power contactor, AC-3 50 A, 22 kW / 400 V 60 V DC, 2 NO + 2 NC 3-pole, Size S2, Screw terminal !!! Phased-out product !!! Successor is SIRIUS 3RT2



Figure similar

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		
maximum permissible voltage for safe isolation			
 between coil and main contacts acc. to EN 60947-1 	400 V		
Protection class IP			
• on the front	IP20		
• of the terminal	IP00		
Shock resistance at rectangular impulse			
• at DC	10g / 5 ms, 5g / 10 ms		
Shock resistance with sine pulse			

Mechanical service life (switching cycles) i • of contactor typical 10 000 000 • of the contactor with added electronics- compatible auxiliary switch block typical 500 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0 000 000 • admiser conditions 0 • maximum 200 m • anabient conditions	• at DC	15g / 5 ms, 8g / 10 ms
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at 1 current path at DC-1 — at 24 V rated value 55 A	• at 690 V rated value	12.6 A
— at 24 V rated value 55 A	Operating current	
	 at 1 current path at DC-1 	
- at 110 V rated value 4.5 A	— 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	
• at 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 24 V rated value	55 A
— at 110 V rated value	25 A
 with 3 current paths in series at DC-3 at DC-5 	
- at 24 V rated value	55 A
— at 110 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 approx. 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 limited to 10 s	400 A
Power loss [W] at AC-3 at 400 V for rated value of	5 W
the operating current per conductor	
No-load switching frequency	
• at DC	1 500 1/h
Operating frequency	
• 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					
Type of voltage of the control supply voltage	DC				
Control supply voltage at DC					
• rated value	60 V				
Operating range factor control supply voltage rated					
value of magnet coil at DC					
● initial value	0.8				
 Full-scale value 	1.1				
Closing power of magnet coil at DC	13.3 W				
Holding power of magnet coil at DC	13.3 W				
Closing delay					
• at DC	60 100 ms				
Opening delay					
• at DC	20 25 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				
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 auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)				
UL/CSA ratings					
Contact rating of auxiliary contacts according to UL	A600 / Q600				
Short circuit protoction					
Short-circuit protection Design of the fuse link					
for short-circuit protection of the main circuit					
- with type of coordination 1 required	fuse gL/gG: 160 A				
— with type of assignment 2 required	fuse gL/gG: 80 A				
— with type of assignment 2 required	1400 gr go. 00 / 1				

• for short-circuit protection of the auxiliary switch required

fuse gL/gG: 10 A

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		
Depth	179 mm		
Required spacing			
 for grounded parts 			
— at the side	6 mm		
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-sections			
• for main contacts			
— solid	2x (0.75 16 mm²)		
— stranded	2x (0.75 25 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 (0.75 16 mm²)		
 at AWG conductors for main contacts 	2x (18 2)		
Type of connectable conductor cross-sections			
 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)		
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12		

General Product	t Approval			Functional Safety/Safety of Machinery	Declaration of Conformity	
	CSA		EHC	Type Examination Certificate	EG-Konf.	
Test Certificates	i		Marine / Shippir	Marine / Shipping		
Type Test Certific- ates/Test Report	Special Test Certi- ficate	Miscellaneous	ABS	Lloyd's Kegister Lrs	RINA	
Marine / Shippin	g	other				
RMRS	DIVY-GL	<u>Confirmation</u>	<u>Miscellaneous</u>			

urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

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Cax online generator

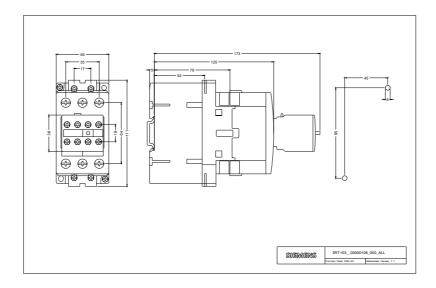
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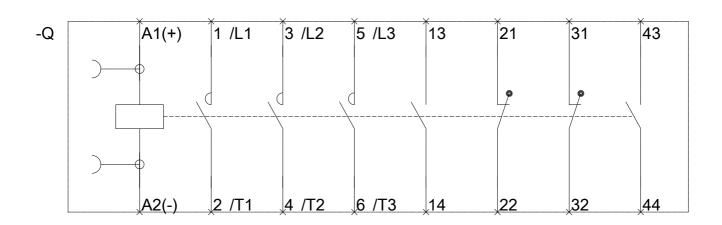
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1036-1BE44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1036-1BE44&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1036-1BE44/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1036-1BE44&objecttype=14&gridview=view1





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