SIEMENS

Data sheet

3RT1065-6AB36

CONTACTOR, 132KW/400V/AC-3 AC(50...60HZ)/DC OPERATION UC 23-26V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL



Figure similar

Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1
General technical data	
Size of contactor	S10
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Insulation voltage	
• rated value	1 000 V
Degree of pollution	3
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	690 V
60947-1	
Protection class IP	
• on the front	IP00

 of the terminal 	IP00			
Shock resistance at rectangular impulse				
• at AC	8,5g / 5 ms, 4,2g / 10 ms			
• at DC	8,5g / 5 ms, 4,2g / 10 ms			
Shock resistance with sine pulse				
• at AC	13,4g / 5 ms, 6,5g / 10 ms			
• at DC	13,4g / 5 ms, 6,5g / 10 ms			
Mechanical service life (switching cycles)				
of 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 block typical 	10 000 000			
Ambient conditions				
Ambient temperature				
 during operation 	-25 +60 °C			
• during storage	-55 +80 °C			
Main circuit				
Number of poles for main current circuit	3			
Number of NO contacts for main contacts	3			
Operating voltage				
 at AC-3 rated value maximum 	1 000 V			
Operating current				
• at AC-1 at 400 V				
— at ambient temperature 40 °C rated value	330 A			
● at AC-1				
— up to 690 V at ambient temperature 40 °C rated value	330 A			
— up to 690 V at ambient temperature 60 °C rated value	300 A			
— up to 1000 V at ambient temperature 40 °C rated value	150 A			
— up to 1000 V at ambient temperature 60 °C rated value	150 A			
• at AC-2 at 400 V rated value	265 A			
• at AC-3				
— at 400 V rated value	265 A			
— at 500 V rated value	265 A			
— at 690 V rated value	265 A			
— at 1000 V rated value	95 A			
Connectable conductor cross-section in main circuit at AC-1				

• at 60 °C minimum permissible	185 mm ²
• at 40 °C minimum permissible	185 mm ²
Operating current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	117 A
• at 690 V rated value	105 A
Operating current	
 at 1 current path at DC-1 	
— at 24 V rated value	300 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
Operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 110 V rated value	3 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A

— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
Operating power	
● at AC-1	
— at 230 V at 60 °C rated value	113 kW
— at 400 V rated value	197 kW
— at 400 V at 60 °C rated value	197 kW
— at 690 V rated value	340 kW
— at 690 V at 60 °C rated value	340 kW
— at 1000 V at 60 °C rated value	246 kW
• at AC-2 at 400 V rated value	132 kW
• at AC-3	
— at 230 V rated value	85 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	66 kW
• at 690 V rated value	102 kW
Thermal short-time current limited to 10 s	2 400 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	18 W
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	700 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	10/20
Type of voltage of the control supply voltage	AC/DC
 Control supply voltage at AC at 50 Hz rated value 	23 26 V
	23 26 V
at 60 Hz rated value Control supply voltage at DC	20 20 V
rated value	23 26 V
• rated value Operating range factor control supply voltage rated	
value of magnet coil at AC	
-	

	0.8 1.1
• at 50 Hz	
• at 60 Hz	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	500.1/ 4
• at 50 Hz	590 V·A
Inductive power factor with closing power of the coil	
• at 50 Hz	0.9
Apparent holding power of magnet coil at AC	
• at 50 Hz	6.7 V·A
Inductive power factor with the holding power of the coil	
• at 50 Hz	0.9
Closing power of magnet coil at DC	650 W
Holding power of magnet coil at DC	7.4 W
Closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
Opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	Standard A1 - A2
Control version of the switch operating mechanism	Standard AT - Az
Auxiliary circuit	
· · · · · · · · · · · · · · · · · · ·	
Auxiliary circuit	
Auxiliary circuit Number of NC contacts	2
Auxiliary circuit Number of NC contacts • for auxiliary contacts	
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact	
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts	
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts	2
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact	2
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum	2
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15	2 2 10 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact 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 2 10 A 6 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact 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 • at 400 V rated value	2 2 10 A 6 A 3 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact 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 • at 400 V rated value • at 500 V rated value	2 2 10 A 6 A 3 A 2 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact 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 • at 500 V rated value • at 690 V rated value	2 2 10 A 6 A 3 A 2 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value	2 2 10 A 6 A 3 A 2 A 1 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 40 V rated value • at 21 V rated value • at 40 V rated value • at 40 V rated value • at 60 V rated value • at 110 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A

0.15 A				
10 A				
2 A				
2 A				
1 A				
0.9 A				
0.3 A				
0.1 A				
1 faulty switching per 100 million (17 V, 1 mA)				
240 A				
242 A				
-				
75 hp				
100 hp				
200 hp				
250 hp				
A600 / Q600				
Fuse gG: 500 A				
Fuse gG: 400 A				
fuse gG: 10 A				
+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface				
screw fixing				
Yes				
210 mm				
445				
145 mm				
202 mm				

Type of electrical cor	nnection						
 for main current circuit 			screv	v-type terminals			
 for auxiliary and control current circuit 				v-type terminals			
Type of connectable	conductor cross-see	ctions					
 at AWG conduct 	ctors for main contact	cts	2/0	. 500 kcmil			
Type of connectable	conductor cross-see	ctions					
 for auxiliary con 	ntacts						
— solid			2x (0	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)			
— single or multi-stranded			2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)				
— finely strar	nded with core end p	processing	2x (0	.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 at AWG condu- 	ctors for auxiliary co	ntacts	2x (2	0 16), 2x (18 ²	14), 1x 12		
Safety related data							
Product function							
 Mirror contact a 	acc. to IEC 60947-4-	·1	Yes				
 positively drive 	n operation acc. to I	EC 60947-5-	No				
1							
Protection against el	Protection against electrical shock			finger-safe when touched vertically from front acc. to IEC 60529			
Certificates/approva	als						
General Product	t Approval				Functional	Declaration of	
					Safety/Safety	Conformity	
					of Machinery		
(\mathfrak{m})	(SP)			FAL	Type Examination Certificate	CE	
CCC	CSA			LIIL		EG-Konf.	
Test Certificates	1			Marine / Shippi	na		
Type Test	Special Test	Miscellaneo					
Certificates/Test	Certificate			A CARP		<u>لَّهٌ</u>	
Report				* Or SHIPPING		DNV	
				ABS	RMRS	DNV	
Marine /	other						
Shipping							
oproved PA-	Confirmation	Miscellaneo	ous	Environmental			
Non Contraction				Confirmations			
DNVGL.COM/AF							
Further information							
Information- and Dov	wnloadcenter (Catalo	ogs, Brochures)				

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

Industry Mall (Online ordering system)

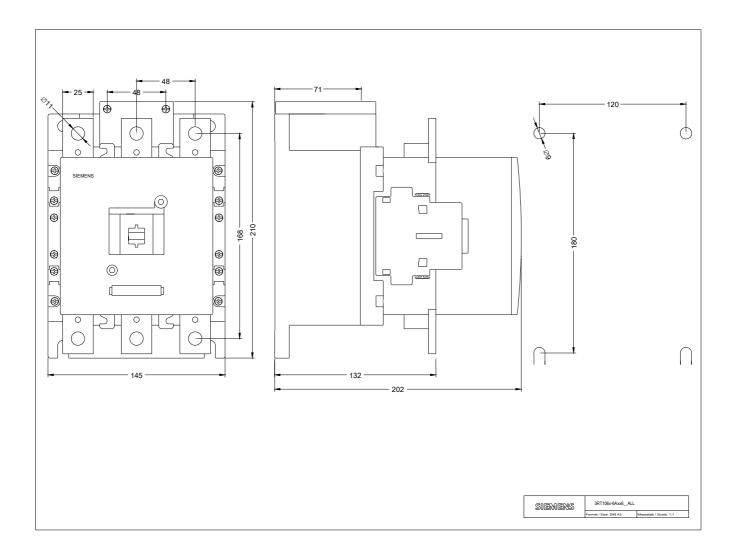
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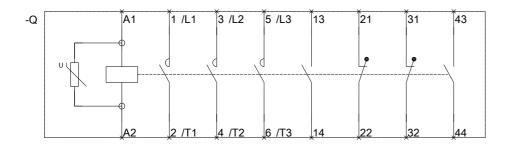
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