SIEMENS

Data sheet

3RT1075-6AB36

CONTACTOR, 200KW/400V/AC-3 AC(50...60HZ)/DC OPERATION UC 23-26V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL

Figure similar

SIRIUS
Power contactor
3RT1
S12
No
Yes
1 000 V
3
8 kV
690 V
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- compatible auxiliary switch block typical 	5 000 000
 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	2
Number of poles for main current circuit Number of NO contacts for main contacts	3
Operating voltage	3
at AC-3 rated value maximum	1 000 V
	1000 V
• at AC-1 at 400 V	
	420 A
— at ambient temperature 40 °C rated value	430 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	430 A
— up to 690 V at ambient temperature 60 °C rated value	400 A
— up to 1000 V at ambient temperature 40 °C rated value	200 A
— up to 1000 V at ambient temperature 60 °C rated value	200 A
• at AC-2 at 400 V rated value	400 A
• at AC-3	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
Connectable conductor cross-section in main circuit at AC-1	

• at 60 °C minimum permissible	240 mm ²
• at 40 °C minimum permissible	300 mm ²
Operating current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	150 A
• at 690 V rated value	135 A
Operating current	
 at 1 current path at DC-1 	
— at 24 V rated value	400 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	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 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	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 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	400 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	400 A
— at 110 V rated value	400 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	400 A
— at 110 V rated value	400 A

— at 220 V rated value	400 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	151 kW
— at 400 V rated value	263 kW
— at 400 V at 60 °C rated value	263 kW
— at 690 V rated value	454 kW
— at 690 V at 60 °C rated value	454 kW
— at 1000 V at 60 °C rated value	329 kW
• at AC-2 at 400 V rated value	200 kW
• at AC-3	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	85 kW
• at 690 V rated value	133 kW
Thermal short-time current limited to 10 s	3 200 A
Power loss [W] at AC-3 at 400 V for rated value of	35 W
the operating current per conductor No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	700 1/h
• at AC-2 maximum	200 1/h
• at AC-3 maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	22 26.1/
at 50 Hz rated value	23 26 V 23 26 V
at 60 Hz rated value	23 20 V
Control supply voltage at DC • rated value	23 26 V
Prated Value Operating range factor control supply voltage rated	
value of magnet coil at AC	
v	

• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	
• at 50 Hz	830 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	9.2 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.9
Closing power of magnet coil at DC	920 W
Holding power of magnet coil at DC	10 W
Closing delay	
● at AC	45 100 ms
● at DC	45 100 ms
Opening delay	
● at AC	60 100 ms
• at DC	60 100 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Number of NC contacts	
 for auxiliary contacts 	
 — instantaneous contact 	2
— instantaneous contact Number of NO contacts	2
	2
Number of NO contacts	2
• for auxiliary contacts	
Number of NO contacts for auxiliary contacts instantaneous contact 	2
Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum	2
Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum Operating current at AC-15	2 10 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
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 10 A 6 A 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 • at 400 V rated value • at 500 V rated value	2 10 A 6 A 3 A 2 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value	2 10 A 6 A 3 A 2 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value Operating current at DC-12	2 10 A 6 A 3 A 2 A 1 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value Operating current at DC-12 • at 24 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 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 • 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 • at 48 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 60 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A

• at 600 V rated value	0.15 A
Operating current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	361 A
• at 600 V rated value	382 A
Yielded mechanical performance [hp]	
 for three-phase AC motor 	
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	Fuse gG: 630 A
 — with type of assignment 2 required 	Fuse gG: 500 A
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A
required	
nstallation/ mounting/ dimensions	
Mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type	screw fixing
Side-by-side mounting	Yes
Height	214 mm
Width	160 mm
Depth	225 mm
Required spacing	
 for grounded parts 	
— at the side	10 mm
Connections/Terminals	

pe of electrical con	nection				
 for main current 	t circuit		screw-type terminals		
 for auxiliary and 	I control current circ	cuit	screw-type terminals		
pe of connectable of	conductor cross-sec	ctions			
 at AWG conduct 	tors for main contac	cts	2/0 500 kcmil		
vpe of connectable of	conductor cross-sec	ctions			
 for auxiliary con 	itacts				
— solid			2x (0.5 1.5 mm²), 2	2x (0.75 2.5 mm²), ma	ax. 2x (0.75 4 mr
— single or m	ulti-stranded		2x (0,5 1,5 mm²), 2	2x (0,75 2,5 mm²), ma	ax. 2x (0,75 4 mr
— finely stran	ded with core end p	processing	2x (0.5 1.5 mm²), 2	2x (0.75 2.5 mm²)	
 at AWG conduct 	ctors for auxiliary co	ntacts	2x (20 16), 2x (18	14), 1x 12	
ety related data					
oduct function					
	cc. to IEC 60947-4-		Yes		
 positively driver 	n operation acc. to I	EC 60947-5-	No		
otection against ele	ectrical shock		finger-safe when touc	ched vertically from from	t acc. to IEC 60529
rtificates/approval	s				
General Product	Approval			Functional	Declaration of
General Product	Approval			Safety/Safety of Machinery	Conformity
General Product		UL	EAC	Safety/Safety	
		UL	ERE Marine / Ship	Safety/Safety of Machinery Type Examination Certificate	Conformity
	Approval	<u>Miscellanec</u>	Marine / Ship	Safety/Safety of Machinery Type Examination Certificate	Conformity
CCC Test Certificates Special Test	Type Test Certificates/Test	Miscellaneo	Marine / Ship	Safety/Safety of Machinery Type Examination Certificate	Conformity CE C EG-Konf.
CCC Test Certificates Special Test Certificate	Type Test Certificates/Test Report	Miscellanec	Marine / Ship	Safety/Safety of Machinery Type Examination Certificate	Conformity CE C EG-Konf.
Ccc Test Certificates Special Test Certificate	Type Test Certificates/Test Report	Miscellaneo Environmer Confirmatio	Marine / Ship	Safety/Safety of Machinery Type Examination Certificate	Conformity CE C EG-Konf.

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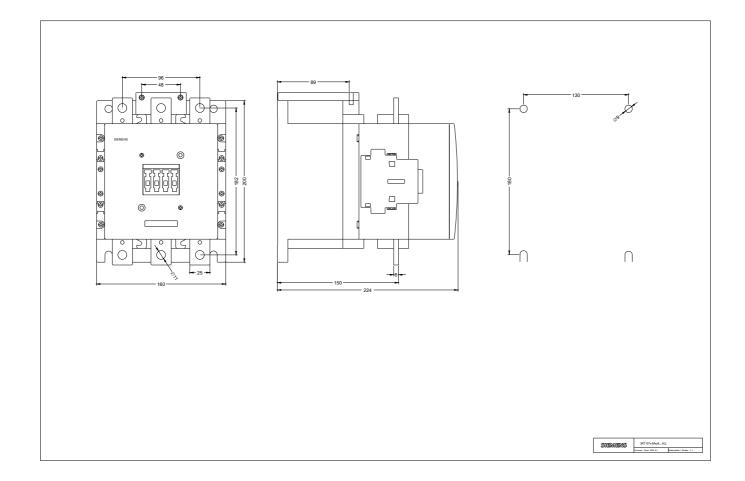
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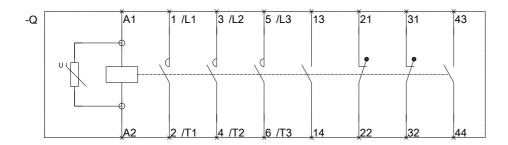
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