SIEMENS

Data sheet

3RT1064-6PF35



CONTACTOR, 110KW/400V/AC-3 AC(50...60HZ)/DC OPERATION UC 96-127V AUXILIARY CONTACTS 1NO+1NC 3-POLE, SIZE S10 BAR CONNECTIONS ELECTRONIC OPERATING MECHANISM WITH PLC/SIMOCODE INTERFACE AND REMAIN. LIFETIME INDICATOR

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- 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	
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	275 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	275 A
— up to 690 V at ambient temperature 60 °C rated value	250 A
— up to 1000 V at ambient temperature 40 °C rated value	100 A
— up to 1000 V at ambient temperature 60 °C rated value	100 A
• at AC-2 at 400 V rated value	225 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
Connectable conductor cross-section in main circuit at AC-1	

• at 60 °C minimum permissible	120 mm ²
• at 40 °C minimum permissible	150 mm ²
Operating current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	96 A
• at 690 V rated value	85 A
Operating current	
 at 1 current path at DC-1 	
— at 24 V rated value	200 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	11 A
— at 600 V rated value	4 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	200 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 110 V rated value	200 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	200 A
— at 110 V rated value	200 A

— at 220 V rated value	200 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	94 kW
— at 400 V rated value	164 kW
— at 400 V at 60 °C rated value	164 kW
— at 690 V rated value	283 kW
— at 690 V at 60 $^\circ \rm C$ rated value	283 kW
— at 1000 V at 60 °C rated value	164 kW
• at AC-2 at 400 V rated value	110 kW
• at AC-3	
— at 230 V rated value	73 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	54 kW
• at 690 V rated value	82 kW
Thermal short-time current limited to 10 s	1 800 A
Power loss [W] at AC-3 at 400 V for rated value of	17 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	750 1/h
• at AC-2 maximum	250 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	06 407.1/
• at 50 Hz rated value	96 127 V
at 60 Hz rated value	96 127 V
Control supply voltage at DC	06 127.1/
rated value	96 127 V
Operating range factor control supply voltage rated value of magnet coil at AC	

• 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	530 V·A
Inductive power factor with closing power of the coil	
• at 50 Hz	0.8
Apparent holding power of magnet coil at AC	
• at 50 Hz	5 V·A
Inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.5
Closing power of magnet coil at DC	580 W
Holding power of magnet coil at DC	3.4 W
Closing delay	
• at AC	45 80 ms
• at DC	45 80 ms
Opening delay	
• at AC	80 100 ms
• at DC	80 100 ms
Arcing time	10 15 ms
Auxiliary circuit	
Auxiliary circuit Number of NC contacts	
Number of NC contacts	1
Number of NC contactsfor auxiliary contacts	1
Number of NC contacts for auxiliary contacts instantaneous contact 	1
Number of NC contacts for auxiliary contacts instantaneous contact Number of NO contacts	1
Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts	
Number of NC contacts for auxiliary contacts instantaneous contact Number of NO contacts for auxiliary contacts instantaneous contact 	1
Number of NC contacts for auxiliary contacts instantaneous contact Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum	1
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	1 10 A
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	1 10 A 6 A
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 at 230 V rated value at 400 V rated value 	1 10 A 6 A 3 A
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 at 230 V rated value at 400 V rated value at 500 V rated value 	1 10 A 6 A 3 A 2 A
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	1 10 A 6 A 3 A 2 A
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 • at 690 V rated value	1 10 A 6 A 3 A 2 A 1 A
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 500 V rated value • at 690 V rated value • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A
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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A
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 500 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A
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 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 3 A
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 400 V rated value • at 690 V rated value • at 10 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 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)

1.11.7		ratinga	
UL/	USA	ratings	

Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	180 A
• at 600 V rated value	192 A
Yielded mechanical performance [hp]	
 for three-phase AC motor 	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

Fuse gG: 500 A
Fuse gG: 400 A
fuse gG: 10 A

Insta	llation/	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	210 mm
Width	165 mm
Depth	202 mm
Required spacing	
 for grounded parts 	
— at the side	10 mm
Connections/Terminals	

Type of electrical connection

 for main current 	circuit		screw-type terminals		
 for auxiliary and 	control current circ	cuit	screw-type terminals		
ype of connectable of	conductor cross-sec	ctions			
 at AWG conduct 	tors for main contac	cts	2/0 500 kcmil		
ype of connectable of	conductor cross-sec	ctions			
 for auxiliary con 	tacts				
— solid			2x (0.5 1.5 mm²), 2x (0	0.75 2.5 mm²), max	x. 2x (0.75 4 mm²)
— single or m	ulti-stranded		2x (0,5 1,5 mm²), 2x (0	0,75 2,5 mm²), max	x. 2x (0,75 4 mm²)
— finely strand	ded with core end p	processing	2x (0.5 1.5 mm²), 2x (0	0.75 2.5 mm²)	
 at AWG conduct 	tors for auxiliary co	ntacts	2x (20 16), 2x (18 1	4), 1x 12	
fety related data					
roduct function					
 Mirror contact a 	cc. to IEC 60947-4-	-1	Yes		
 positively driven 	operation acc. to I	EC 60947-5-	No		
1					
rotection against ele	ctrical shock		finger-safe when touched	d vertically from front	acc. to IEC 60529
ertificates/approval	S				
General Product	Approval			Functional	Declaration of
General Product	Approval			Functional Safety/Safety	Declaration of Conformity
General Product.	Approval				
General Product	Approval			Safety/Safety of Machinery Type Examination	
General Product	Approval	ل ل	FAL	Safety/Safety of Machinery	
		(U) UL	EHC	Safety/Safety of Machinery Type Examination	
		UL	EHC	Safety/Safety of Machinery Type Examination	Conformity
CCC			F 11 F	Safety/Safety of Machinery Type Examination	Conformity
		UL UL Marine / Shi	F 11 F	Safety/Safety of Machinery Type Examination	Conformity
CCC CCC Test Certificates Special Test	CSA Type Test		F 11 F	Safety/Safety of Machinery Type Examination Certificate	Conformity
ccc Test Certificates	Type Test Certificates/Test	Marine / Shi	ipping	Safety/Safety of Machinery Type Examination Certificate	Conformity CE E EG-Konf.
CCC CCC Test Certificates Special Test	CSA Type Test	Marine / Shi	ipping	Safety/Safety of Machinery Type Examination Certificate	Conformity C C C EG-Konf.
CCC CCC Test Certificates Special Test	Type Test Certificates/Test	Marine / Sh	ipping	Safety/Safety of Machinery Type Examination Certificate	Conformity CE CE EG-Konf.
Test Certificates Special Test Certificate	Type Test Certificates/Test	Marine / Sh	ipping	Safety/Safety of Machinery Type Examination Certificate	Conformity CE CE EG-Konf.
Ccc Test Certificates Special Test Certificate	Type Test Certificates/Test Report	Marine / Shi	ipping RMRS	Safety/Safety of Machinery Type Examination Certificate	Conformity CEG-Konf.
Test Certificates Special Test Certificate	Type Test Certificates/Test	Marine / Sh	ipping RMRS	Safety/Safety of Machinery Type Examination Certificate	Conformity CEG-Konf.

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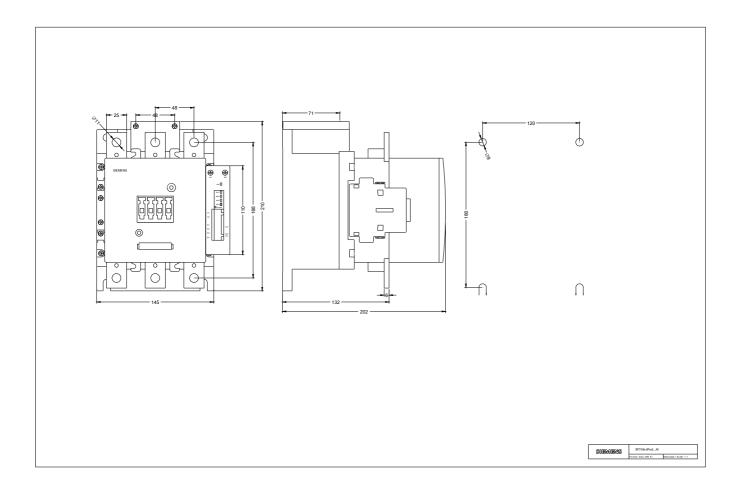
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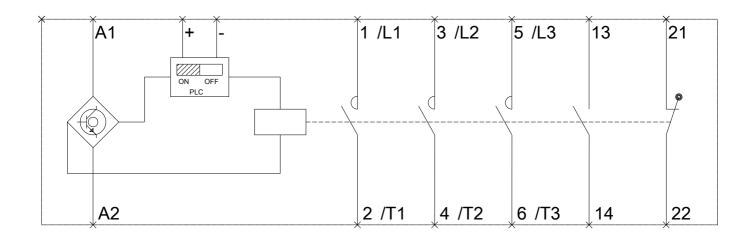
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