SIEMENS

Data sheet

3RT1054-2AR36



power contactor, AC-3 115 A, 55 kW / 400 V AC (50-60 Hz) / DC operation 440-480 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S6 busbar connections drive: conventional spring-loaded terminal

product designation Power contactor product type designation 3RT1 General technical data S6 product extension No • function module for communication Yes • at AC in hot operating state 21 W • at AC in hot operating state per pole 7 W • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit with degree of pollution 3 rated value 500 V • of main circuit rated value 6 W • of main circuit rated value 6 W • of auxiliary circuit nated value 6 W • of auxiliary circuit rated value 6 W • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 6 W • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 90 V • at AC 8.5g / 5 ms, 4.2g / 10 ms <t< th=""><th>product brand name</th><th>SIRIUS</th></t<>	product brand name	SIRIUS
General technical data S6 size of contactor S6 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state per pole 7 W • at AC in hot operating state per pole 7 W 5.2 W insulation voltage • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V 500 V • of main circuit rated value 8 kV 6 kV • of auxiliary circuit rated value 8 kV 6 kV • of auxiliary circuit rated value 8 kV 6 kV • of auxiliary circuit rated value 8 kV 600 V • of auxiliary circuit rated value 8 kV 600 V • of auxiliary circuit rated value 1000 v 500 V • at DC 8,5g / 5 ms, 4,2g / 10 ms 8,5g / 5 ms, 4,2g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms 13,4g / 5 ms, 6,5g / 10 ms • at DC 10 000 000 5000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added el	product designation	Power contactor
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Ambient conditions installation altitude at height above sea level maximum 2 000 m	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m	Substance Prohibitance (Date)	05/01/2012
	Ambient conditions	
ambient temperature	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during operation -25 +60 °C	 during operation 	-25 +60 °C
• during storage -55 +80 °C	during storage	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
lain 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
at AC-3e rated value maximum	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	160 A
rated value	
● at AC-1	
— up to 690 V at ambient temperature 40 °C	160 A
rated value	
— up to 690 V at ambient temperature 60 °C	140 A
rated value	
— up to 1000 V at ambient temperature 40 °C	80 A
rated value	
— up to 1000 V at ambient temperature 60 °C	80 A
rated value	
• at AC-3	115 A
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-3e	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
 at AC-4 at 400 V rated value 	97 A
 at AC-5a up to 690 V rated value 	140 A
 at AC-5b up to 400 V rated value 	95 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated 	115 A
value	
 — up to 400 V for current peak value n=20 rated 	115 A
value	
 up to 500 V for current peak value n=20 rated 	115 A
value	115 A
 — up to 690 V for current peak value n=20 rated value 	115 A
— up to 1000 V for current peak value n=20 rated	53 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated	98 A
value	
 — up to 400 V for current peak value n=30 rated 	98 A
value	
— up to 500 V for current peak value n=30 rated	98 A
value	
 up to 690 V for current peak value n=30 rated 	98 A
value	50 A
 — up to 1000 V for current peak value n=30 rated value 	53 A
minimum cross-section in main circuit at maximum AC-1	70 mm ²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	
at 400 V rated value	54 A
at 690 V rated value	48 A
operational current	
at 1 current path at DC-1	

— at 24 V rated value	160 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	160 A
— at 110 V rated value	160 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	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
• at 1 current path at DC-3 at DC-5	
- at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 220 V rated value — at 440 V rated value	
	0.17 A 0.12 A
— at 600 V rated value	U.12 A
with 2 current paths in series at DC-3 at DC-5	400 4
— at 24 V rated value	160 A
— at 110 V rated value	160 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	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
operating power for approx. 200000 operating cycles	
at AC-4	00.1344
at 400 V rated value	29 kW
at 690 V rated value	48 kW
operating apparent power at AC-6a	40.000 13/4
• up to 230 V for current peak value n=20 rated value	40 000 kVA
• up to 400 V for current peak value n=20 rated value	80 000 VA
• up to 500 V for current peak value n=20 rated value	100 000 VA
• up to 690 V for current peak value n=20 rated value	130 000 VA
 up to 1000 V for current peak value n=20 rated 	90 000 VA
value	
operating apparent power at AC-6a	20.000 \/A
 up to 230 V for current peak value n=30 rated value 	30 000 VA

 up to 400 V for current peak value n=30 rated value 	60 000 VA			
 up to 500 V for current peak value n=30 rated value 	80 000 VA			
 up to 690 V for current peak value n=30 rated value 	110 000 VA			
 up to 1000 V for current peak value n=30 rated 	90 000 VA			
value				
short-time withstand current in cold operating state up to 40 °C				
•	2.565 At Lise minimum gross spation ago to AC 1 roted value			
Imited to 1 s switching at zero current maximum	2 565 A; Use minimum cross-section acc. to AC-1 rated value 1 654 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 				
 limited to 10 s switching at zero current maximum 	1 170 A; Use minimum cross-section acc. to AC-1 rated value 729 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 				
Imited to 60 s switching at zero current maximum	572 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency • at AC	2 000 1/h			
• at DC	2 000 1/h			
operating frequency	2 000 1/11			
• at AC-1 maximum	800 1/h			
 at AC-2 maximum at AC-3 maximum 	400 1/h 1 000 1/h			
• at AC-3 maximum • at AC-3e maximum	1 000 1/h			
• at AC-3e maximum	130 1/h			
Control circuit/ Control				
	AC/DC			
type of voltage of the control supply voltage control supply voltage at AC	ACIDO			
• at 50 Hz rated value	440 480 V			
at 50 Hz rated value at 60 Hz rated value	440 480 V 440 480 V			
control supply voltage at DC	440 400 V			
• rated value	440 480 V			
operating range factor control supply voltage rated	· · · · · · · · · · · · · · · · · · ·			
value of magnet coil at DC				
initial value	0.8			
 full-scale value 	1.1			
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	300 VA			
• at 60 Hz	300 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.9			
• at 60 Hz	0.9			
apparent holding power of magnet coil at AC				
• at 50 Hz	5.8 VA			
• at 60 Hz	5.8 VA			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.8			
• at 60 Hz	0.8			
closing power of magnet coil at DC	360 W			
holding power of magnet coil at DC	5.2 W			
closing delay				
• at AC	20 95 ms			
• at DC	20 95 ms			
opening delay				
• at AC	40 60 ms			
• at DC	40 60 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			
number of NO contacts for auxiliary contacts instantaneous contact	2			
operational current at AC-12 maximum	10 A			
operational current at AC-15				
at 230 V rated value	6 A			
 at 400 V rated value 	3 A			
• at 500 V rated value	2 A			
• at 690 V rated value	1 A			
operational current at DC-12				
 at 24 V rated value 	10 A			
 at 48 V rated value 	6 A			
 at 60 V rated value 	6 A			
 at 110 V rated value 	3 A			
 at 125 V rated value 	2 A			
at 220 V rated value	1 A			
at 600 V rated value	0.15 A			
operational 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 3-phase AC motor				
 at 480 V rated value 	124 A			
• at 600 V rated value	125 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 230 V rated value	25 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	40 hp			
— at 220/230 V rated value	50 hp			
— at 460/480 V rated value	100 hp			
— at 575/600 V rated value	125 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 	gG: 355 A (690 V, 100 kA)			
 — with type of assignment 2 required 	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)			
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)			
required				
Installation/ mounting/ dimensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
fastening method	screw fixing			
side-by-side mounting	Yes			
height	172 mm			
width	120 mm			
depth	170 mm			
required spacing				
with side-by-side mounting				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			

— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
for live parts				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
onnections/ Terminals				
type of electrical connection	Oursesting here			
for main current circuit	Connection bar			
for auxiliary and control circuit	spring-loaded terminals			
at contactor for auxiliary contacts	Spring-type terminals			
of magnet coil	_ Spring-type terminals _ 17 mm			
width of connection bar thickness of connection bar	3 mm			
diameter of holes	3 mm 9 mm			
number of holes	1			
type of connectable conductor cross-sections				
at AWG cables for main contacts	4 250 kcmil			
connectable conductor cross-section for main				
contacts				
stranded	25 120 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.25 2.5 mm ²			
 finely stranded with core end processing 	0.25 1.5 mm²			
 finely stranded without core end processing 	0.25 2.5 mm²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid	2x (0.25 2.5 mm ²)			
— solid or stranded	2x (0,25 2,5 mm²)			
 finely stranded with core end processing 	2x (0.25 1.5 mm²)			
 finely stranded without core end processing 	2x (0.25 2.5 mm²)			
at AWG cables for auxiliary contacts	2x (24 14)			
AWG number as coded connectable conductor cross section				
 for auxiliary contacts 	24 14			
afety related data				
product function				
 mirror contact according to IEC 60947-4-1 	Yes			
positively driven operation according to IEC 60947- 5-1	No			
B10 value with high demand rate according to SN 31920	1 000 000			
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover			
suitability for use				
 safety-related switching OFF 	Yes			
ertificates/ approvals				

EMC	Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					other
ABS	Lloyd's Register uis	PRS	RMRS	DINV-GL	<u>Miscellaneous</u>
other			Railway		
<u>Confirmation</u>	<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Special Test Certific</u> <u>ate</u>	=	
Further information					
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