SIEMENS

Data sheet

3RT1064-2AM36



power contactor, AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC operation 200-220 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional spring-loaded terminal

product designation Power contactor product type designation 3R11 General technical data S10 product extension No • function module for communication No • function module for communication Yes power loss [W] for rated value of the current 1 • at AC in hot operating state per pole 17 W • without load current share typical 7.4 W insulation voltage 1000 V • of auxiliary circuit with degree of pollution 3 rated value 500 V • of main circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit rated value 8 kV • at AC 8.5g / 5 ms, 4.2g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 10.000 000 • at AC 10.000000 • at AC 1	product brand name	SIRIUS
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installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	Substance Prohibitance (Date)	05/01/2012
ambient temperature • during operation -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during storage -55 +80 °C	 during operation 	-25 +60 °C
	during storage	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
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
 at AC-3 rated value maximum at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	275 A
— up to 690 V at ambient temperature 40 $^\circ\mathrm{C}$ 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-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
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 1000 V rated value	68 A
 at AC-4 at 400 V rated value 	195 A
 at AC-5a up to 690 V rated value 	242 A
 at AC-5b up to 400 V rated value at AC-6a 	186 A
— up to 230 V for current peak value n=20 rated value	225 A
— up to 400 V for current peak value n=20 rated value	225 A
 — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated 	225 A 225 A
- up to 000 V for current peak value n=20 rated - up to 1000 V for current peak value n=20 rated	68 A
value ● at AC-6a	
— up to 230 V for current peak value n=30 rated value	172 A
— up to 400 V for current peak value n=30 rated value	172 A
— up to 500 V for current peak value n=30 rated value up to 600 V for current peak value n=20 rated	172 A
— up to 690 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated	172 A 68 A
minimum cross-section in main circuit at maximum AC-1	150 mm ²
rated value operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	96 A
at 690 V rated value	85 A
operational 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
 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 stad value	200.4
— 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-3	
— at 230 V rated value	55 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
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 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
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	90 000 kVA
 up to 400 V for current peak value n=20 rated value 	150 000 VA
 up to 500 V for current peak value n=20 rated value 	190 000 VA
 up to 690 V for current peak value n=20 rated value 	260 000 VA
 up to 1000 V for current peak value n=20 rated 	110 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	60 000 VA
• up to 400 V for current peak value n=30 rated value	110 000 VA
 up to 500 V for current peak value n=30 rated value 	140 000 VA

• up to 690 V for current peak value n=30 rated value	200 000 VA			
 up to 1000 V for current peak value n=30 rated value 	110 000 VA			
short-time withstand current in cold operating state up to 40 °C				
 limited to 1 s switching at zero current maximum 	4 000 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	2 082 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	1 397 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	1 397 A; Use minimum cross-section acc. to AC-1 rated value 1 144 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				
• at AC-1 maximum	750 1/h			
• at AC-2 maximum	250 1/h			
• at AC-3 maximum	500 1/h			
• at AC-3e 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				
at 50 Hz rated value	200 220 V			
at 60 Hz rated value	200 220 V			
control supply voltage at DC	200 220 V			
rated value	200 220 V			
operating range factor control supply voltage rated value of magnet coil at DC	200 220 V			
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	590 VA			
• at 60 Hz	590 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	6.7 VA			
• at 60 Hz	6.7 VA			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.9			
• at 60 Hz	0.9			
closing power of magnet coil at DC	650 W			
holding power of magnet coil at DC	7.4 W			
closing delay	20 05 mg			
• at AC	30 95 ms			
• at DC	30 95 ms			
opening delay	40 80 mc			
• at AC	40 80 ms			
• at DC	40 80 ms 10 15 ms			
arcing time control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
	2			
number of NC contacts for auxiliary contacts instantaneous contact	2			

number of NO contacts for subiliant contacts	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	2 A 1 A			
operational current at DC-12				
at 24 V rated value	10 A			
• at 48 V rated value	10 A 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	1A			
at 220 V rated value at 600 V rated value	0.15 A			
operational current at DC-13	0.15 A			
at 24 V rated value	10.4			
at 24 V rated value at 48 V rated value	10 A 2 A			
• at 60 V rated value	2 A			
• at 110 V rated value	1A			
at 125 V rated value at 220 V rated value	0.9 A			
at 220 V rated value at 600 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	180 A			
at 600 V rated value	192 A			
yielded mechanical performance [hp]				
 for 3-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			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
 — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA)			
 — with type of assignment 2 required 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415			
, , , , , , , , , , ,	V, 50 kA)			
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
	with vortical mounting outface 1/00° ratatable with vortical mounting			
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	210 mm			
width	145 mm			
depth	202 mm			
required spacing				
with side-by-side mounting				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
for grounded parts				
 forwards 	20 mm			
— upwards	10 mm			
— upwarus	IV IIIII			

- 4 4 4	10		
— at the side	10 mm		
— downwards	10 mm		
for live parts	20 mm		
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
• 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		
width of connection bar	25 mm		
thickness of connection bar diameter of holes	6 mm		
	11 mm		
number of holes	1		
type of connectable conductor cross-sections • at AWG cables for main contacts	2/0 500 kcmil		
at AWG cables for main contacts connectable conductor cross-section for main			
connectable conductor cross-section for main contacts			
stranded	70 240 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.25 2.5 mm²		
 finely stranded with core end processing 	0.25 1.5 mm ²		
 finely stranded without core end processing 	0.25 2.5 mm ²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	2x (0.25 2.5 mm²)		
— solid or stranded	2x (0,25 2,5 mm ²)		
 finely stranded with core end processing 	2x (0.25 1.5 mm ²)		
 finely stranded without core end processing 	2x (0.25 2.5 mm ²)		
 at AWG cables for auxiliary contacts 	2x (24 14)		
AWG number as coded connectable conductor cross section			
 for auxiliary contacts 	24 14		
Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes		
 positively driven operation according to IEC 60947- 	No		
5-1			
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		
Certificates/ approvals			
General Product Approval			
EMC Functional Safety/Safety of Declaration of Machinery	of Conformity Test Certificates		

RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	C C EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					other
ABS	Lloyds Register urs	PRS	KMRS RMRS	DIVI-GL DIVI-COMP	<u>Miscellaneous</u>
other			Railway		
<u>Confirmation</u>	<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>		
Further information Information- and Downloadcenter (Catalogs, Brochures,)					
<u>https://www.siemens.</u> Industry Mall (Online	https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1064-2AM36				

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-2AM36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2AM36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-2AM36&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2AM36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-2AM36&objecttype=14&gridview=view1

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