## 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
Genoral technical data         size of contactor         product extension         of unclino module for communication         • auxiliary switch         ouxiliary switch         ouxiliary switch         ouxiliary switch         ouxiliary switch         ouxiliary circuit with degree of pollution 3 rated value         of main circuit with degree of pollution 3 rated value         of main circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 5 rated value         of auxiliary circuit rated value         of auxiliary site biologit         of the contactor with added electronically optimized auxiliary switch block typical         of the contactor with added auxil	product designation	Power contactor
size of contactor         S10           product extension         .           iunction module for communication         No           auxiliary switch         Yes           power loss [W] for rated value of the current         .           at AC in hot operating state         51 W           at AC in hot operating state prole         17 W           e without load current share typical         1.000 V           of main circuit with degree of pollution 3 rated value         1.000 V           of main circuit with degree of pollution 3 rated value         500 V           e of main circuit rated value         6 kV           e of auxiliary circuit rated value         6 kV           e of auxiliary circuit rated value         6 kV           e at DC         8,5g / 5 ms, 4,2g / 10 ms           shock resistance at rectangular impulse         4,3g / 5 ms, 6,5g / 10 ms           e at DC         13,4g / 5 ms, 6,5g / 10 ms           e at DC         10 000 000           of ontactor typical         10 000 000           e of the contactor with added electronically optimized auxiliary witch block typical         10 000 000           e of the contactor with added auxiliary switch block typical         10 000 000           e of the contactor with added auxiliary switch block typical         000 000	product type designation	3RT1
product extension       No         • function module for communication       Yes         • auxiliary switch       Yes         power loss (W] for rated value of the current       51 W         • at AC in hot operating state       51 W         • at AC in hot operating state per pole       17 W         • without load current share typical       7.4 W         insulation voltage       1000 V         • of main circuit with degree of pollution 3 rated value       1000 V         • of auxiliary circuit rated value       6 kV         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of main circuit rated value       8 kV         • of main circuit rated value       8 kV         • of auxiliary circuit rated value       6 kV         • of main contacts according to EN 60947-1         shock resistance at rectangular impulse       8.5g / 5 ms, 4.2g / 10 ms         • 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 DC       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical	General technical data	
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• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse-• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical2 000 mInstallation altitude at height above sea level maximum • during operation2 000 m		690 V
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mechanical service life (switching cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/01/2012         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	• at AC	13,4g / 5 ms, 6,5g / 10 ms
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typical     Image: constraint of the second se		5 000 000
Substance Prohibitance (Date)       05/01/2012         Ambient conditions       installation altitude at height above sea level maximum         ambient temperature       2 000 m         • during operation       -25 +60 °C		10 000 000
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	reference code according to IEC 81346-2	Q
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	<ul> <li>during operation</li> </ul>	-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
<ul> <li>operating voltage</li> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	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
<ul> <li>— up to 1000 V at ambient temperature 60 °C rated value</li> </ul>	100 A
<ul> <li>at AC-3</li> <li>— at 400 V rated value</li> </ul>	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
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	195 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	242 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	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
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> <li>— up to 690 V for current peak value n=20 rated</li> </ul>	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 <sup>2</sup>
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	
<ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> </ul>	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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— 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
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
- 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
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	150 000 VA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	190 000 VA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	260 000 VA
<ul> <li>up to 1000 V for current peak value n=20 rated</li> </ul>	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
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	140 000 VA

• up to 690 V for current peak value n=30 rated value	200 000 VA			
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	110 000 VA			
short-time withstand current in cold operating state up to 40 °C				
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	4 000 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	2 807 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	2 082 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	1 397 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	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			
<ul> <li>full-scale value</li> </ul>	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]				
<ul> <li>for 3-phase AC motor</li> </ul>				
— 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				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 500 A (690 V, 100 kA)			
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415			
<b>,</b> , , , , , , , , , ,	V, 50 kA)			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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				
<ul> <li>forwards</li> </ul>	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		
<ul> <li>for auxiliary and control circuit</li> </ul>	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		
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>		
<ul> <li>finely stranded without core end processing</li> </ul>	0.25 2.5 mm <sup>2</sup>		
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 <sup>2</sup> )		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> )		
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 2.5 mm <sup>2</sup> )		
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (24 14)		
AWG number as coded connectable conductor cross section			
<ul> <li>for auxiliary contacts</li> </ul>	24 14		
Safety related data			
product function			
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes		
<ul> <li>positively driven operation according to IEC 60947-</li> </ul>	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			
<ul> <li>safety-related switching OFF</li> </ul>	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, I<sup>2</sup>t, 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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