## SIEMENS

## Data sheet

## 3RT2027-2AL24



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S0, removable auxiliary switch

product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT2		
General technical data			
size of contactor	SO		
product extension			
<ul> <li>function module for communication</li> </ul>	No		
auxiliary switch	No		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	6.3 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.3 W		
<ul> <li>without load current share typical</li> </ul>	10.5 W		
insulation voltage			
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V		
of auxiliary circuit with degree of pollution 3 rated value	690 V		
surge voltage resistance			
<ul> <li>of main circuit rated value</li> </ul>	6 kV		
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V		
shock resistance at rectangular impulse			
• at AC	8,3g / 5 ms, 5,3g / 10 ms		
shock resistance with sine pulse			
• at AC	13,5g / 5 ms, 8,3g / 10 ms		
mechanical service life (operating cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000		
of the contactor with added auxiliary switch block typical	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
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 maximum	95 %		
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	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	50 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated	42 A
value	
● at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
at AC-4 at 400 V rated value	22 A
• at AC-5a up to 690 V rated value	44 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	26.5 A
	30.8 A
— up to 230 V for current peak value n=20 rated value	
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	30.8 A 27 A
— up to 500 V for current peak value n=20 rated value	21 A 21 A
• at AC-6a	21A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	20.5 A
— up to 200 V for current peak value n=30 rated value	20.5 A
— up to 500 V for current peak value n=30 rated value	18 A
— up to 690 V for current peak value n=30 rated value	18 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	12 A
at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC- 4	
<ul> <li>at 400 V rated value</li> </ul>	6 kW
a at 600 V rated value	10.3 kW
<ul> <li>at 690 V rated value</li> </ul>	10.0 101
operating apparent power at AC-6a	
	12.2 kVA
operating apparent power at AC-6a	
<ul><li>operating apparent power at AC-6a</li><li>up to 230 V for current peak value n=20 rated value</li></ul>	12.2 kVA
<ul> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	12.2 kVA 21.3 kVA
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<ul> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <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 value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	12.2 kVA 21.3 kVA 23.3 kVA 25 kVA 8.1 kVA
<ul> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <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 value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	12.2 kVA 21.3 kVA 23.3 kVA 25 kVA 8.1 kVA 14.2 kVA
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control supply voltage at AC	
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 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	1A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	6 A
at 48 V rated value	2 A
at 60 V rated value	2 A
at 10 V rated value	1A
at 125 V rated value	0.9 A
	0.9 A
• at 220 V rated value	0.3 A
<ul><li>at 220 V rated value</li><li>at 600 V rated value</li></ul>	0.3 A 0.1 A
at 220 V rated value     at 600 V rated value contact reliability of auxiliary contacts	0.3 A
at 220 V rated value     at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings	0.3 A 0.1 A
at 220 V rated value     at 600 V rated value  contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value     at 600 V rated value     contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 27 A
at 220 V rated value     at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value     at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value     yielded mechanical performance [hp]	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 27 A
at 220 V rated value     at 600 V rated value     contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value     at 600 V rated value     for single-phase AC motor	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 27 A 27 A
at 220 V rated value     at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value     yielded mechanical performance [hp]	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 27 A

for 3-phase AC motor					
- at 200/208 V rated value	10 hp				
— at 220/230 V rated value	10 hp				
— at 460/480 V rated value	20 hp				
— at 575/600 V rated value	25 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>					
— with type of coordination 1 required	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)				
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)				
Installation/ mounting/ dimensions					
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
side-by-side mounting	Yes				
height	102 mm				
width	45 mm				
depth	144 mm				
required spacing					
<ul> <li>with side-by-side mounting</li> <li>— forwards</li> </ul>	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
for grounded parts					
— forwards	10 mm				
— upwards	10 mm				
— at the side	6 mm				
— downwards	10 mm				
<ul> <li>for live parts</li> </ul>					
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	6 mm				
Connections/ Terminals					
type of electrical connection					
• for main current circuit	spring-loaded terminals				
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals				
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals				
• of magnet coil	Spring-type terminals				
type of connectable conductor cross-sections for main contacts					
• solid	2x (1 10 mm²)				
<ul> <li>solid or stranded</li> </ul>	2x (1 10 mm²)				
finely stranded with core end processing	2x (1 6 mm <sup>2</sup> )				
finely stranded without core end processing	2x (1 6 mm²)				
connectable conductor cross-section for main contacts					
• solid	1 10 mm <sup>2</sup>				
stranded	1 10 mm <sup>2</sup>				
finely stranded with core end processing	1 6 mm <sup>2</sup>				
finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts	1 6 mm <sup>2</sup>				
solid or stranded	0.5 2.5 mm²				
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²				
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	0.5 1.5 mm²				
type of connectable conductor cross-sections					
for auxiliary contacts					
- solid or stranded	2x (0.5 2.5 mm²)				
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> )				
<ul> <li>— finely stranded with our end processing</li> <li>— finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )				
. ,					

<ul> <li>for AWG cables</li> </ul>	es for auxiliary contacts			2x (20 14)			
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross		27 (20 1	2X (20 14)				
section							
<ul> <li>for main contact</li> </ul>			18 8				
for auxiliary contacts			20 14				
afety related data							
product function							
•	ccording to IEC 60947-4-1		Yes				
	operation according to IEC	60047 5 1	No				
· · ·							
B10 value with high demand rate according to SN 31920		450 000					
proportion of dangerous failures		10.07					
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>		40 % 73 %					
	bw demand rate according		100 FIT				
61508	interval or service life acco	ording to IEC	20 a				
	n the front according to I	FC 60529	IP20				
-	the front according to IEC			, for vertical conta	ct from the front		
suitability for use		00020	iniger sure				
<ul> <li>safety-related sv</li> </ul>	witching OFF		Yes				
ertificates/ approvals			163				
General Product App	proval						
		Confirmatio	'n		KC		
(CD	(m)	<u>commado</u>	<u>//1</u>	6		гпг	
<b>U</b>	<u>u</u>			<b>U</b>		ГПI	
CSA	ccc			UL			
	Functional						
EMC	Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates		
	onnory						
<b>^</b>	Type Examination Cer-				Special Test Certific-	Type Test Certific-	
10A	tificate	UK		CE	ate	ates/Test Report	
Ś							
RCM				EG-Konf.			
Marine / Shipping							
CON DO	(SU VE)	0 0			APPA	(Th	
Same B	<u> i sa i</u>	JΔ		Lloyds	(33)		
		DNV		Register			
ABS	BUREAU	DNV		LRS	PRS	RINA	
	VERITAS						
Marine / Shipping	other				Railway	Environment	
	<b>Confirmation</b>	^		Confirmation	Vibration and Shock	Environmental Con-	
						firmations	
		ت	,				
RMRS		VDE					
urther information		(a) (a) - b - b					
biemens nas decided	to exit the Russian marl	ket (see nere). e/siemens-wind-do	own-russian-h	ousiness			
	on the renewal of the curr						
Please contact your lo	cal Siemens office on the s	tatus of validity of	the EAC cer		nd to import or offer to supp	bly these products to a	
	which any file and file a construction of a little		tee Duesie e	- D - I			
EAC relevant market ( Information on the pa		EAEU member sta	ites Russia o	r Belarus).			

https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

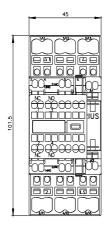
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2027-2AL24

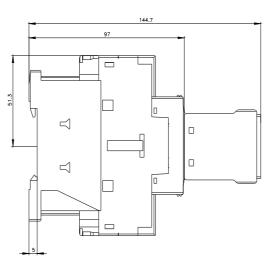
Cax online generator

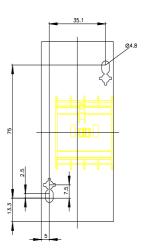
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-2AL24 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2AL24 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2027-2AL24&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2AL24/char

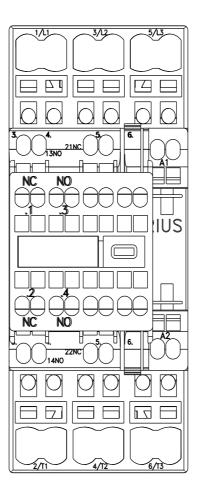
Further characteristics (e.g. electrical endurance, switching frequency)

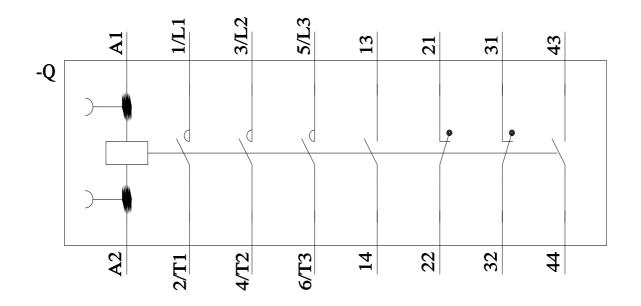
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-2AL24&objecttype=14&gridview=view1











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7/10/2023