SIEMENS

Data sheet

3RT2327-2AL20



contactor AC-1, 50 A, 400 V / 40 °C, 4-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	SO
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 	12 W
 at AC in hot operating state per pole 	3 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of the auxiliary and control circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
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)	
 of contactor typical 	10 000 000
 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	4
number of NO contacts for main contacts	4
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	50 A

•		
vulue 42.A	• at AC-1	50.4
value value - at 400 V roles value 155 A - at 400 V roles value 155 A momenum cross-section in main circuit at maximum AC-1 rated value 10 mm* • at AC-4 at 400 V rated value 75 kW • at AC-4 at 400 V rated value 75 kW • at AC-4 at 400 V rated value 75 kW • at AC-4 at 400 V rated value 75 kW • at AC-4 at 400 V rated value 75 kW • at AC-4 at 400 V rated value 10 mm* • at AC-4 at 400 V rated value 10 mm* • at AC-4 at 400 V rated value 10 mm* • at AC-4 at 400 V rated value 10 mm* • at AC-4 at 400 V rated value 10 mm* • at AC b is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at AC b is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at AC b is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at AC b is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at AC b is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at AC<		50 A
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− at 400 Vrated value 15.5 Å retrieve 15.5 Å retrieve 10 mm² operating power 7.5 kW • at AC-3 at 400 Vrated value 7.5 kW • at AC-4 at 400 Vrated value 7.5 kW • at AC-4 at 400 Vrated value 7.5 kW • at AC-4 at 400 Vrated value 7.5 kW • at AC-4 at 400 Vrated value 7.5 kW • at AC-4 at 800 Vrated value 7.5 kW • at AC-4 at 800 Vrated value 7.5 kW • at AC-4 at 800 Vrated value 7.5 kW • at AC-10 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • initied to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • initied to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • initied to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • initied to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • initied to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • initied to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • initied to 6 is switching at zero current maximum Use minitum cross-secticon acc. to AC-1 rated value • ot a		
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minimum cross-section in main circuit at maximum AC-1 rated value 10 mm² operating power • at AC-3 at 400 V rated value 7.5 kW • at AC-3 at 400 V rated value 7.5 kW • at AC-3 at 400 V rated value 7.5 kW • at AC-3 at 400 V rated value 7.5 kW • at AC-3 at 400 V rated value 7.5 kW • at AC-3 at 400 V rated value 7.5 kW • initial to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • limited to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • limited to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • limited to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • limited to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • limited to 5 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at AC 5 600 fth Cortor • at AC	— at 400 V rated value	15.5 A
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• at AC-4 at 400 V rated value 7.5 kW ehnet daw withstand current in cold operating state up to 0°C 0°C • infield to 1 s witching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • infield to 3 s witching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • infield to 3 s witching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • infield to 3 s witching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • infield to 30 s witching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • infield to 40 s witching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • of 30 secting at zero current maximum Use minimum cross-section acc. to AC-1 rated value • of 30 strained value 200 V • of 30 thz rated value 230 V • of 30 thz rated value 230 V • of 30 thz 0.811 • of 30 thz 0.811 • of 30 thz 0.811 • of 30 thz 0.72 • of 30 thz 0.72 • of 30 thz 0.72 • of 30 thz 0.74		
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number of NC contacts for auxiliary contacts 1 • attachable 2 • instantaneous contact 1 number of NO contacts for auxiliary contacts 1 • attachable 2 • attachable 1 operational current at AC-12 maximum 10 A operational current at AC-15 10 A		Standard A1 - A2
• attachable2• instantaneous contact1number of NO contacts for auxiliary contacts1• attachable2• instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-1510 A		
• instantaneous contact1number of NO contacts for auxiliary contacts1• attachable2• instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-1510 A	-	
number of NO contacts for auxiliary contacts1• attachable2• instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-1510 A		
• attachable 2 • instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15 10 A		
• instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15 10 A • at 230 V rated value 10 A	-	
operational current at AC-12 maximum 10 A operational current at AC-15 10 A • at 230 V rated value 10 A		
operational current at AC-15 • at 230 V rated value 10 A	instantaneous contact	1
• at 230 V rated value 10 A	operational current at AC-12 maximum	10 A
	operational current at AC-15	
• at 400 V rated value 3 A	• at 230 V rated value	10 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 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			
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	gG: 10 A (230 V, 400 A)			
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
UL/CSA ratings				
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
product function short circuit protection	No			
design of the fuse link				
for short-circuit protection of the main circuit				
- with type of coordination 1 required	gG: 63 A (690 V, 100 kA)			
— with type of assignment 2 required	gG: 20 A (690 V, 100 kA)			
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (690 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	60 mm			
depth	97 mm			
required spacing				
 with side-by-side mounting 				
— forwards	10 mm			
— upwards				
	10 mm			
— downwards	10 mm 10 mm			
— downwards — at the side				
	10 mm			
— at the side	10 mm			
— at the side for grounded parts	10 mm 0 mm			
 — at the side for grounded parts — forwards 	10 mm 0 mm 10 mm			
 at the side for grounded parts forwards upwards 	10 mm 0 mm 10 mm 10 mm			
 at the side for grounded parts forwards upwards at the side downwards 	10 mm 0 mm 10 mm 10 mm 6 mm			
 at the side for grounded parts forwards upwards at the side 	10 mm 0 mm 10 mm 10 mm 6 mm			
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm			
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm			
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards downwards 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards at the side at the side 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm			
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards at the side at the side 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards at the side downwards group at the side 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 6 mm			
 at the side for grounded parts forwards upwards at the side downwards for live parts for live parts forwards upwards upwards at the side Connections/ Terminals type of electrical connection for main current circuit 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm			
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm 8 spring-loaded terminals spring-loaded terminals			
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 5 pring-loaded terminals spring-loaded terminals spring-type terminals			
 at the side for grounded parts forwards upwards at the side downwards for live parts for wards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm 8 spring-loaded terminals spring-loaded terminals			
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts 	10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 5 pring-loaded terminals spring-loaded terminals spring-type terminals			

 solid or stranded 			2x (1 10 mm²)				
 finely stranded w 	ith core end processing			2x (1 6 mm ²)			
•	ithout core end processi	ng	2x (1 6 mm²)				
	or cross-section for ma	-	, ,				
 solid 			1 10 mm²				
 solid or stranded 			1 10 mm²				
 stranded 			1 10 mm²				
 finely stranded w 	ith core end processing		1 6 mm²				
•	ithout core end processi	ng	1 6 mm²				
,	or cross-section for aux	•					
 solid or stranded 		-	0.5 2.5 mm²				
 finely stranded w 	ith core end processing		0.5 1.5 mm²				
•	ithout core end processi	ng	0.5 2.5 mm²				
· · · · ·	onductor cross-section	-					
 for auxiliary containing 							
— solid			2x (0.5 2.5 mm²))			
— solid or stra	nded		2x (0.5 2.5 mm ²)				
- finely strand	ded with core end proces	sing	2x (0.5 1.5 mm ²)				
	ded without core end pro	-	2x (0.5 2.5 mm ²)	,			
	or auxiliary contacts	0	2x (20 14)	/			
	d connectable conduct	or cross					
 for main contacts 	i		18 8				
 for auxiliary containing 			20 14				
Safety related data		· · · · · · · · · · · · · · · · · · ·					
product function							
•	cording to IEC 60947-4-	1	Yes				
	nterval or service life acc		20 a				
61508		-					
-	protection class IP on the front according to IEC 60529						
			finger-safe, for vert	tical contact f	rom the front		
Communication/ Protoc							
product function bus	communication		No				
Certificates/ approvals							
General Product App	roval					EMC	
(SP)	<u>Confirmation</u>			D	EHC	RCM	
Functional Safety/Safety of Ma- chinery	Declaration of Confo	ormity	Test Certif	ficates		Marine / Shipping	
Type Examination Cer- tificate	CE EG-Konf.	UK CA	<u>Type Test</u> ates/Test		Special Test Certific- ate	ABS	
Marine / Shipping							
BUREAU VERITAS		Llovd's Register uts	PR	5	RINA	KMRS	
other		Railway	Environme	ent			



Vibration and Shock

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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=3RT2327-2AL20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2327-2AL20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2AL20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

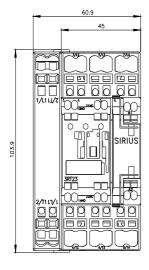
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2327-2AL20&lang=en

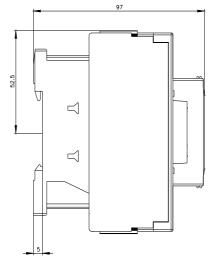
Characteristic: Tripping characteristics, I²t, Let-through current

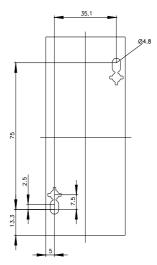
https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2AL20/char

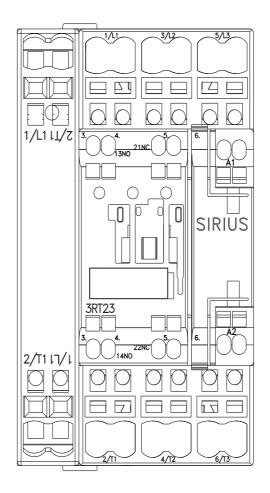
Further characteristics (e.g. electrical endurance, switching frequency)

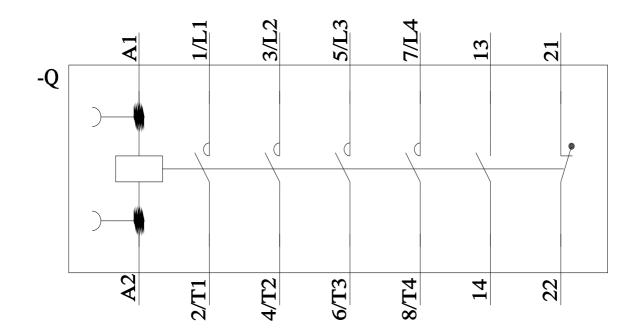
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2327-2AL20&objecttype=14&gridview=view1











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