SIEMENS

Data sheet

3RT2327-2AC20



contactor AC-1, 50 A, 400 V / 40 °C, 4-pole, 24 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

• at AC-1	
 at AC-1 up to 690 V at ambient temperature 40 °C rated 	50 A
value	50 A
— up to 690 V at ambient temperature 60 °C rated	42 A
value	
• at AC-3	
— at 400 V rated value	15.5 A
• at AC-4 at 400 V rated value	15.5 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm ²
value operating power	
at AC-3 at 400 V rated value	7.5 kW
• at AC-4 at 400 V rated value	7.5 kW
short-time withstand current in cold operating state up to	7.5 KW
40 °C	
 limited to 1 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
● at AC	5 000 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	24 V
 at 60 Hz rated value 	24 V
operating range factor control supply voltage rated value of	
magnet coil at AC	0.0 44
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	24.1/4
• at 50 Hz	81 VA 79 VA
at 60 Hz	79 VA
inductive power factor with closing power of the coil	0.70
• at 50 Hz • at 60 Hz	0.72 0.74
apparent holding power of magnet coil at AC	0.74
at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	0.0 1/1
at 50 Hz	0.25
• at 60 Hz	0.25
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	1
attachable	2
instantaneous contact	1
number of NO contacts for auxiliary contacts	1
attachable	2
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A

• at 500 V rated value 1 A operational current at DC-12 1 A • at 24 V rated value 10 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 6 A • at 10 V rated value 6 A • at 220 V rated value 2 A • at 220 V rated value 1 A • at 220 V rated value 0.15 A operational current at DC-13 0 A • at 24 V rated value 0.15 A operational current at DC-13 0 A • at 24 V rated value 0.9 A • at 25 V rated value 1 A • at 10 V rated value 1 A • at 220 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) vottact rating of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection of the main circuit			
operational current at DC-12 10 A • at 24 V rated value 10 A • at 48 V rated value 6 A • at 60 V rated value 6 A • at 10 V rated value 6 A • at 125 V rated value 2 A • at 220 V rated value 1 A • at 220 V rated value 0.15 A operational current at DC-13 0.15 A • at 42 V rated value 0.15 A operational current at DC-13 0.4 A • at 42 V rated value 2 A • at 110 V rated value 2 A • at 25 V rated value 2 A • at 25 V rated value 0.9 A • at 110 V rated value 0.1 A • at 200 V rated value 0.1 A • design of the miniature circuit breaker for short-circuit protection gG: 10 A (230 V, 400 A) of the auxiliary contacts according to UL A600 / Q600 Short-circuit protection No design of the fuse link • for short circuit protection of the main circuit - with type of assignment 2 required gG: 20 A (690 V, 100 kA) <td></td>			
at 24 V rated value 10 A • at 48 V rated value 6 A • at 60 V rated value 6 A • at 10 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 0 A • at 24 V rated value 10 A • at 24 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 0.15 A operational current at DC-13 10 A • at 25 V rated value 0.16 A • at 125 V rated value 0.9 A • at 125 V rated value 0.3 A • at 600 V rated value 0.1 A • design of the minitaric ricuit breaker for short-circuit protection gG: 10 A (230 V, 400 A) of the auxiliary switch required 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Intelligent for the fuse link • for short-circuit protection No design of the fuse link • for short-circuit protection of the main circuit • with type of assignment 2 required gG: 20 A (690 V, 100 kA) •			
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• 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 10 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 48 V rated value 1 A • at 20 V rated value 0.9 A • at 220 V rated value 0.1 A • at 200 V rated value 0.1 A design of the miniture circuit breaker for short-circuit protection of the auxiliary switch required 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings			
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for short-circuit protection of the auxiliary switch required gG: 10 A (690 V, 1 kA) Installation/ mounting/ dimensions	· · · ·		
Installation/ mounting/ dimensions			
	_		
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface			
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN E	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			
— at the side 0 mm			
for grounded parts			
— forwards 10 mm			
— upwards 10 mm			
— at the side 6 mm			
— downwards 10 mm			
for live parts			
forwards 10 mm			
— downwards 10 mm			
- at the side 6 mm			
Connections/ Terminals			
type of electrical connection			
for main current circuit spring-loaded terminals			
for auxiliary and control circuit spring-loaded terminals			
at contactor for auxiliary contacts Spring-type terminals			
of magnet coil Spring-type terminals			
type of connectable conductor cross-sections for main contacts			
• solid 2x (1 10 mm ²)			

 solid or stranded 			2x (1 10 mm²)			
 finely stranded with core end processing 			2x (1 6 mm ²)			
 finely stranded with core and processing 			2x (1 6 mm ²)			
	or cross-section for mai	-	,			
• solid		1 10 mm²				
 solid or stranded 	solid or stranded		1 10 mm ²			
 stranded 			1 10 mm ²			
 finely stranded w 	ith core end processing		1 6 mm ²			
 finely stranded without core end processing 			1 6 mm ²			
•	or cross-section for aux					
solid or stranded			0.5 2.5 mm²			
 finely stranded with core end processing 			0.5 1.5 mm²			
 finely stranded with ore end processing finely stranded without core end processing 			0.5 2.5 mm ²			
type of connectable c	onductor cross-section	S				
 for auxiliary containing 	acts					
— solid			2x (0.5 2.5 mm²)			
— solid or stra	— solid or stranded		2x (0.5 2.5 mm²)			
- finely strand	ded with core end proces	sing	2x (0.5 1.5 mm²)			
- finely strand	ded without core end proc	essing	2x (0.5 2.5 mm²)			
 for AWG cables 	for auxiliary contacts		2x (20 14)			
AWG number as code section	d connectable conduct	or cross				
 for main contacts 	3		18 8			
 for auxiliary containing 	for auxiliary contacts		20 14			
Safety related data						
product function						
 mirror contact ac 	cording to IEC 60947-4-1		Yes			
T1 value for proof test i	nterval or service life acco	ording to IEC	20 a			
61508						
protection class IP on the front according to IEC 60529			IP20			
touch protection on the front according to IEC 60529			finger-safe, for vertical contact	ct from the front		
Communication/ Protoc	Communication/ Protocol					
product function bus	communication		No			
Certificates/ approvals						
General Product App	roval				EMC	
	<u>Confirmation</u>			EHC	RCM	
Functional Safety/Safety of Ma- chinery	Declaration of Confo	rmity	Test Certificates		Marine / Shipping	
<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping						
BUREAU VERITAS		Lloyd's Register uis	PRS	RINA	KMRS	
other		Railway	Environment			



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=3RT2327-2AC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2327-2AC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2AC20

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

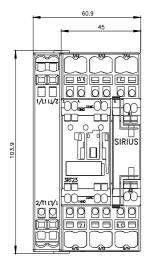
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2327-2AC20&lang=en

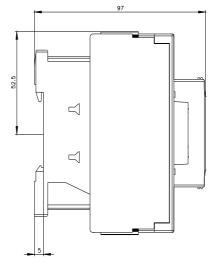
Characteristic: Tripping characteristics, I²t, Let-through current

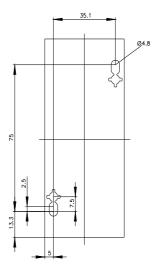
https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2AC20/char

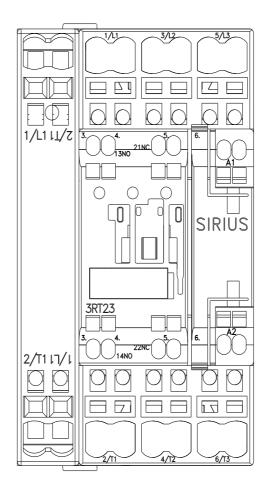
Further characteristics (e.g. electrical endurance, switching frequency)

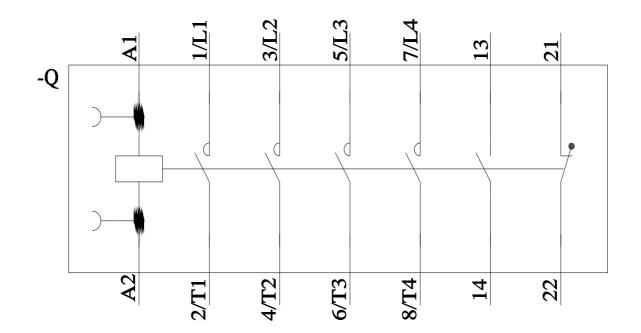
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2327-2AC20&objecttype=14&gridview=view1











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