SIEMENS

Data sheet

3RT2327-2AP00



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

and the second second			
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	
— up to 690 V at ambient temperature 60 °C rated	42 A
value • at AC-3	
	15.5 A
- at 400 V rated value	
at AC-4 at 400 V rated value	15.5 A 10 mm²
minimum cross-section in main circuit at maximum AC-1 rated 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 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	230 V
operating range factor control supply voltage rated value of	200 V
magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	77 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	
• at 50 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	2 A
at 690 V rated value	1A
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
P = = = = = = = = = = = = = = =	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
— 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
— upwards	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 mm²)
 solid or stranded 	2x (1 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
 solid or stranded 	1 10 mm²

 stranded finely stranded wit 							
 finely stranded with 			1 10) mm²			
finely stranded with core end processing		1 6 r	1 6 mm²				
 finely stranded wit 	hout core end processi	ng	1 6 r	mm²			
connectable conductor	cross-section for aux	ciliary contacts					
 solid or stranded 			0.5 2	2.5 mm²			
 finely stranded wit 	h core end processing		0.5 1.5 mm²				
finely stranded without core end processing			0.5 2.5 mm²				
type of connectable co	nductor cross-section	IS					
 for auxiliary contact 	cts						
			2x (0.5	2x (0.5 2.5 mm²)			
		2x (0.5	2x (0.5 2.5 mm²)				
-				x (0.5 1.5 mm²)			
-	ed without core end pro	cessing		(0.5 2.5 mm²)			
 for AWG cables for 	, , , , , , , , , , , , , , , , , , ,		2x (20	14)			
AWG number as coded section	connectable conduct	or cross					
for main contacts			18 8	1			
 for auxiliary contacts 	rts		20 1				
afety related data	515		20 1	7			
product function							
	ording to IEC 60947-4-	1	Yes				
T1 value for proof test int 61508			20 a				
protection class IP on t	he front according to	IEC 60529	IP20				
touch protection on the				safe, for vertical contac	t from the front		
ommunication/ Protoco	-						
product function bus c			No				
ertificates/ approvals							
	<u>(ac</u>)			(\!L)	EHL		
CSA Evenetianal	ccc			Ű	EHL	RCM	
Functional Safety/Safety of Ma- chinery	CCC	rmity		UL Test Certificates	EHL	RCM	
Safety/Safety of Ma- chinery	Declaration of Confo CCC	uk CA	5	Test Certificates Type Test Certificates/Test Report	EHC Special Test Certific- ate	RCM Marine / Shipping	
Safety/Safety of Ma- chinery	CE		5	Type Test Certific-		RCM Marine / Shipping	
Safety/Safety of Ma- chinery Type Examination Cer- tificate	CE			Type Test Certific-		RCM Marine / Shipping	
Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping EUREAU	EG-Konf.	UK CA		Type Test Certific-		KCM Marine / Shipping	
Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	EG-Konf.	Lloyds Kegister us	ŗ	Type Test Certific- ates/Test Report		KCM Marine / Shipping	

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=3RT2327-2AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2327-2AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2AP00

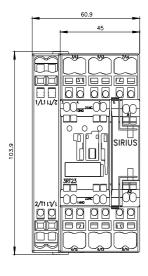
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

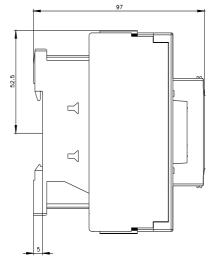
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT23 27-2AP00&lang=en

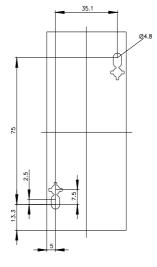
Characteristic: Tripping characteristics, I²t, Let-through current

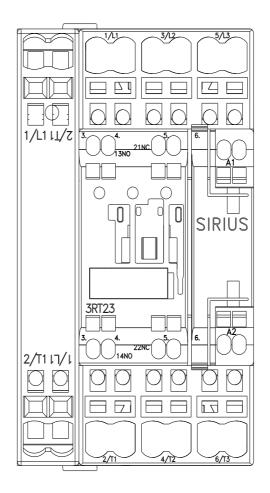
https://support.industry.siemens.com/cs/ww/en/ps/3RT232 P00/char

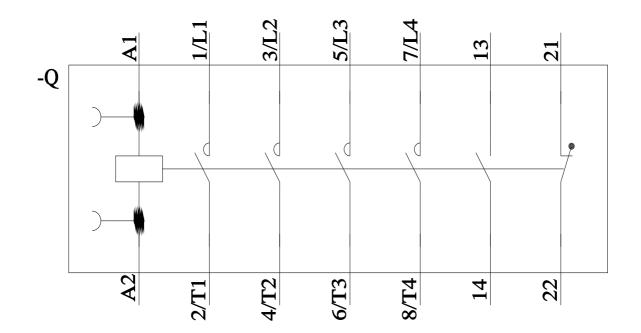
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2327-2AP00&objecttype=14&gridview=view1











11/21/2022 🖸

8/18/2023

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3RT23272AP00