SIEMENS

Data sheet

3RT2327-2AP60



contactor AC-1, 50 A, 400 V / 40 °C, 4-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

and a last	
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 	50 A
value	

• 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	220 V
• at 60 Hz rated value	240 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 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	0.70
• 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	0.05
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	9 40 mg
• at AC	8 40 ms
opening delay	4 16 mg
• at AC	4 16 ms 10 10 ms
arcing time control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
	1
number of NC contacts for auxiliary contacts attachable 	2
	2
instantaneous contact	1
number of NO contacts for auxiliary contacts	
attachable instantaneous contact	2
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	10 A
 at 230 V rated value 	
 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	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
fastening method • side-by-side mounting				
•	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
side-by-side mounting	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes			
side-by-side mounting height	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm			
side-by-side mounting height width	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm			
side-by-side mounting height width depth	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm			
side-by-side mounting height width depth required spacing	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — at the side for grounded parts	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — forwards — forwards — at the side	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — upwards — upwards — upwards — at the side	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — at the side for grounded parts — forwards — upwards — at the side — forwards — upwards — at the side	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — at the side — forwards — upwards — at the side — forwards — upwards — downwards — at the side — downwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — at the side for grounded parts — downwards — at the side — forwards — downwards — at the side — forwards — forwards — at the side — forwards — forwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — at the side — forwards — upwards — at the side — forwards — at the side — downwards — forwards — forwards — forwards — forwards — forwards — forwards — forwards — forwards — forwards — forwards — forwards — forwards — forwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — at the side for grounded parts — forwards — upwards — at the side — downwards — upwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — at the side • for wards — at the side • forwards — upwards — forwards — upwards — forwards — upwards — forwards — upwards — at the side — downwards — forwards — downwards — downwards — upwards — upwards — downwards — downwards — downwards — downwards — mouther the side — upwards — mouther the side — downwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — at the side — downwards — at the side — forwards — upwards — at the side — downwards — forwards — upwards — at the side — downwards — matthe side — downwards — at the side — downwards — at the side — downwards — at the side	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — upwards — at the side for grounded parts — forwards — at the side — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — forwards — at the side — forwards — at the side — downwards — forwards — at the side — downwards — forwards — upwards — other side — downwards — other side — other si	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 6 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — upwards — forwards — at the side for grounded parts — forwards — at the side — forwards — at the side — downwards — at the side — downwards — at the side — downwards — forwards — at the side — downwards — forwards — at the side — downwards — forwards — forwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm			
 side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards at the side for grounded parts for grounded parts for wards at the side for grounded parts for grounded parts for wards at the side for wards at the side downwards for live parts for live parts for wards at the side downwards for live parts at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit 	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 5 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side — forwards — at the side — downwards — at the side — downwards — forwards — at the side — forwards — at the side — forwards — forwards — forwards — at the side — forwards — at the side — forwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — at the side — downwards — at the side — at the si	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 5 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side — forwards — at the side — downwards — at the side — downwards — forwards — at the side — forwards — at the side — forwards — forwards — at the side — forwards — at the side — forwards — at the side — forwards — forwards — at the side — downwards — at the side — at the side — other side — otheretice of theretice of theretice of theretice of theretice of the	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side for grounded parts — forwards — at the side — forwards — at the side — downwards — at the side — downwards — forwards — at the side — forwards — at the side — forwards — forwards — forwards — at the side — forwards — at the side — forwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — at the side — downwards — at the side — at the si	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 5 mm 10 mm 10 mm 10 mm 10 mm 10 mm			

 solid or stranded 			2x (1 10 mm²)				
 finely stranded with core end processing 			2x (1 6 mm ²)				
 finely stranded without core end processing 			2x (1 6 mm ²)				
-	or cross-section for ma						
 solid 			1 10 mm²				
solid or stranded		1 10 mm ²					
 stranded 			1 10 mm ²				
 finely stranded w 	 finely stranded with core end processing 		1 6 mm²				
-	 finely stranded with core end processing 			1 6 mm ²			
	connectable conductor cross-section for auxiliary contacts						
solid or stranded			0.5 2.5 mm ²				
 finely stranded with core end processing 			0.5 1.5 mm ²				
-	 finely stranded with core end processing finely stranded without core end processing 			0.5 2.5 mm ²			
	type of connectable conductor cross-sections						
 for auxiliary containing 							
— solid			2x (0.5 2.5 mm²)				
— solid or stra	inded		2x (0.5 2.5 mm²)				
- finely stran	ded with core end proces	sing	2x (0.5 1.5 mm²)				
-	ded without core end pro		2x (0.5 2.5 mm²)				
	for auxiliary contacts	Ū	2x (20 14)				
	d connectable conduct	or cross					
 for main contacts 	3		18 8				
 for auxiliary cont 	acts		20 14				
Safety related data							
product function							
•	cording to IEC 60947-4-	1	Yes				
			20 a				
61508							
protection class IP on the front according to IEC 60529		IP20					
			finger-safe, for vertical contact	t from the front			
	Communication/ Protocol						
product function bus	communication		No				
Certificates/ approvals							
General Product App	roval				EMC		
SP	<u>Confirmation</u>			EHC	RCM		
Functional Safety/Safety of Ma- chinery	Declaration of Confo	ormity	Test Certificates		Marine / Shipping		
<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS		
Marine / Shipping							
	ĴÅ	Lloyd's Register	(5)				
BUREAU VERITAS	DNV	LRS	PRS	RINA	RMRS		
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=3RT2327-2AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2327-2AP60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2AP60

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

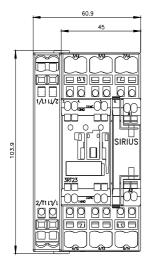
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2327-2AP60&lang=en

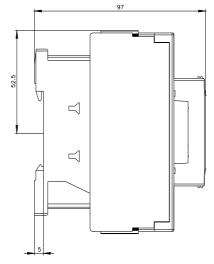
Characteristic: Tripping characteristics, I²t, Let-through current

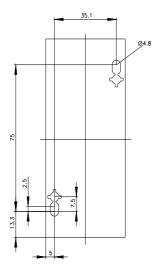
https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2AP60/char

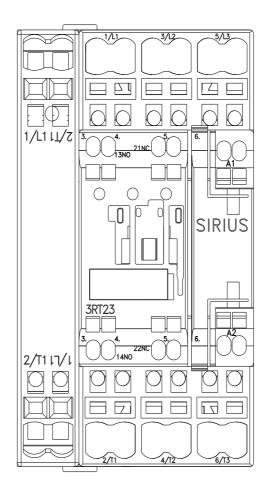
Further characteristics (e.g. electrical endurance, switching frequency)

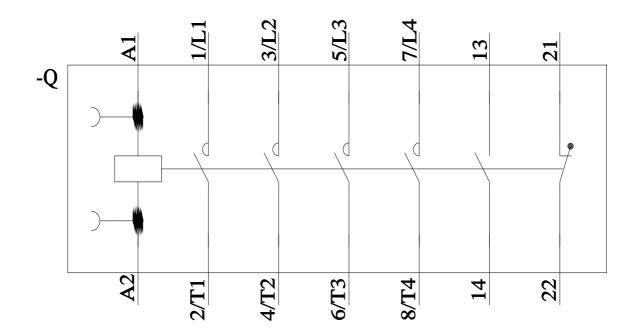
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2327-2AP60&objecttype=14&gridview=view1











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