SIEMENS

Data sheet

3RT2327-1BF40



contactor AC-1, 50 A, 400 V / 40 $^\circ\text{C},$ 4-pole, 110 V DC, auxiliary contacts: 1 NO + 1 NC, screw 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
 without load current share typical 	5.9 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 DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 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				
— 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	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 value	10 mm ²			
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 DC	1 500 1/h			
operating frequency at AC-1 maximum	1 000 1/h			
Control circuit/ Control				
type of voltage	DC			
type of voltage of the control supply voltage	DC			
control supply voltage at DC				
rated value	110 V			
operating range factor control supply voltage rated value of magnet coil at DC				
• initial value	0.8			
• full-scale value	1.1			
closing power of magnet coil at DC	5.9 W			
holding power of magnet coil at DC	5.9 W			
closing delay				
• at DC	50 170 ms			
opening delay				
• at DC	15 18 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 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	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	85 mm			
width	60 mm			
depth	107 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	screw-type terminals			
 for auxiliary and control circuit 	screw-type terminals			
at contactor for auxiliary contacts	Screw-type terminals			
of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections for main contacts				
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
• solid or stranded	2x (1 2.5 mm ²), 2x (2.5 10 mm ²)			
 finely stranded with core end processing 	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²			
connectable conductor cross-section for main contacts				
	1 10 mm²			
• solid				
 solid solid or stranded 	1 10 mm²			
solid or stranded	1 10 mm²			
solid or strandedstranded	1 10 mm² 1 10 mm²			
 solid or stranded stranded finely stranded with core end processing 	1 10 mm²			
solid or strandedstranded	1 10 mm² 1 10 mm²			

turne of compositable of						
	onductor cross-sections	5				
 for auxiliary contacts — solid 			2x (0.5 1.5 mm²), 2x (0.75	2.5 mm^2		
— solid or stranded				,		
 — finely stranded with core end processing 		ina	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
	 Intely stranded with core end processing for AWG cables for auxiliary contacts 		2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
		or cross	2x (20 16), 2x (18 14)			
AWG number as coded connectable conductor cross section						
	• for main contacts		168			
for auxiliary contacts			20 14			
Safety related data		_			_	
product function			¥			
	cording to IEC 60947-4-1		Yes			
T1 value for proof test interval or service life according to IEC 61508		ording to IEC	20 a			
-	the front according to I		IP20			
-	ne front according to IEC	60529	finger-safe, for vertical contact	from the front		
Communication/ Protoc	ol					
-	product function bus communication					
Certificates/ approvals						
General Product App	roval				EMC	
USA CSA	ccc		<u> </u>	CUL	RCM	
Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates		Marine / Shipping	
Type Examination Cer- tificate	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Llovd's Register uts	RINA	RMRS	<u>Confirmation</u>	
other	Railway	Dangerous Goo	d Environment			
	Vibration and Shock	Transport Informa				

Siemens has decided to exit the Russian market (see here). https://press.siemens

ens-wind-down-russian-business n/global/en/pressrelease/s eme

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

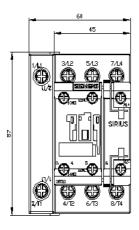
Industry Mall (Online ordering system)

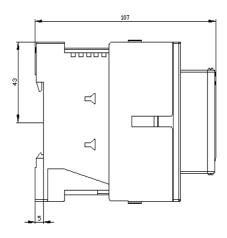
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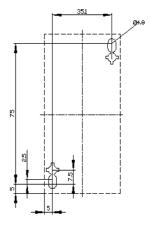
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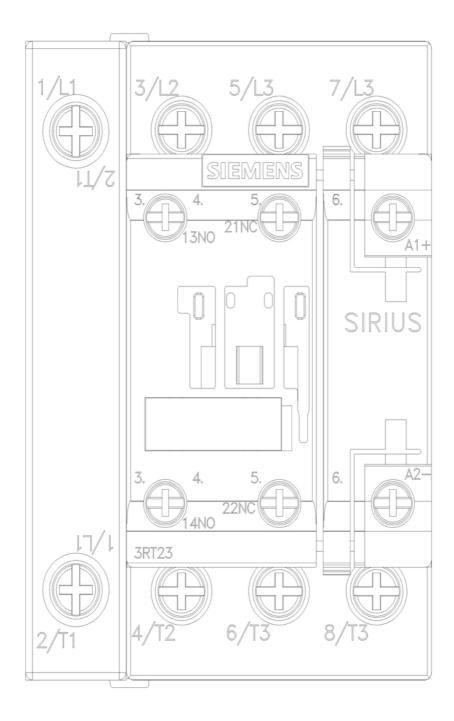
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2327-1BF40

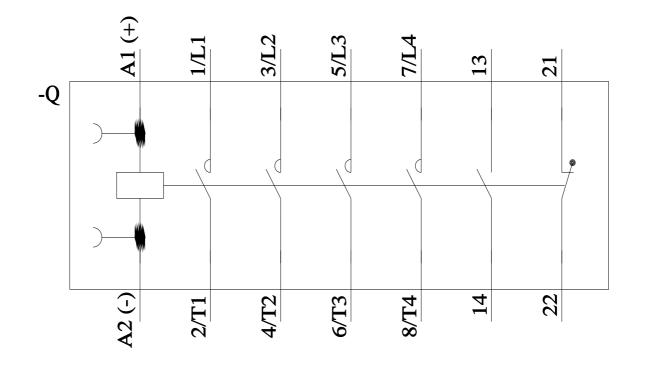
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-1BF40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2327-1BF40&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-1BF40/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2327-1BF40&objecttype=14&gridview=view1











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