SIEMENS

Data sheet

3RT2326-1BB40



contactor AC-1, 40 A, 400 V / 40 $^\circ C$, 4-pole, 24 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 	9.6 W
 at AC in hot operating state per pole 	2.4 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 	40 A

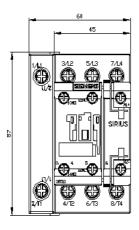
value	
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	40 A
— up to 690 V at ambient temperature 60 °C rated	35 A
value	
• at AC-3	
— at 400 V rated value	15.5 A
 at AC-4 at 400 V rated value 	15.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operating 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
Imited to 1 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
Imited to 0 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
 Innied to 50's switching at zero current maximum Iimited 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	
	DC
type of voltage	DC
type of voltage of the control supply voltage control supply voltage at DC	
rated value	24 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	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	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

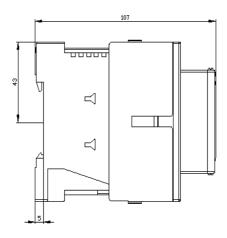
operational current at DC-13				
• at 24 V rated value	10 A			
 at 48 V rated value 	2 A			
• at 110 V rated value	1 A			
• at 125 V rated value	0.9 A			
• at 220 V rated value	0.3 A			
• at 600 V rated value	0.1 A			
design of the miniature circuit breaker for short-circuit protection of the auxiliary 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 mm²), 2x (2.5 10 mm²)			
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
connectable conductor cross-section for main contacts				
• solid	1 10 mm²			
 solid or stranded 	1 10 mm²			
stranded	1 10 mm²			
 Tinely stranded with core end processing 	1 10 mm²			
finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	1 10 mm²			
• finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded	1 10 mm² 0.5 2.5 mm²			

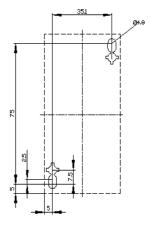
• for auxiliary conta	anductor cross sastient					
-	underfor cross-sections	6				
12.1	acts					
— solid			2x (0.5 1.5 mm²), 2x (0.75 .			
— solid or stranded			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing 			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 for AWG cables for auxiliary contacts 		2	2x (20 16), 2x (18 14)			
AWG number as code section	ed connectable conducto	or cross				
 for main contacts 			16 8			
 for auxiliary contacts 		2	20 14			
Safety related data						
product function						
 mirror contact according to IEC 60947-4-1 		Y	Yes			
T1 value for proof test interval or service life according to IEC 61508		ording to IEC 2	20 a			
protection class IP on the front according to IEC 60529		EC 60529	P20			
touch protection on the front according to IEC 60529			inger-safe, for vertical contact	t from the front		
Communication/ Protoc	ol					
product function bus	communication	1	No			
Certificates/ approvals						
General Product App	roval				EMC	
Functional	ccc		UL.		RCM	
Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates		Marine / Shipping	
Type Examination Cer- tificate	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping						
					other	
BUREAU VERITAS		Lloyd's Register urs	RINA	RMRS	other Confirmation	
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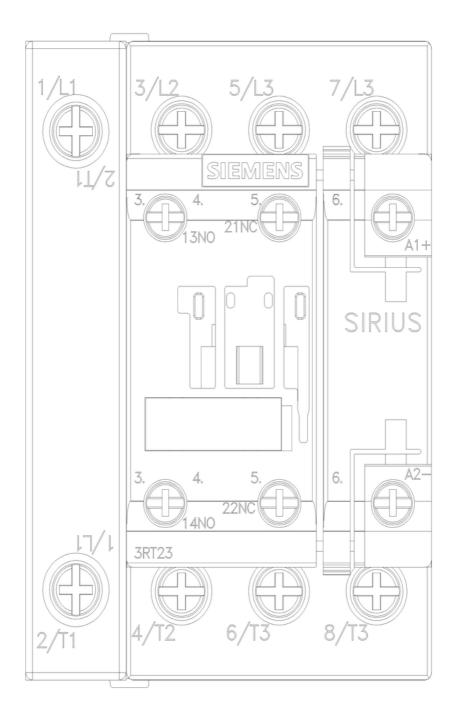
Siemens has decided to exit the Russian market (see here). https://press.siemens ens-wind-down-russian-business n/global/en/pressrelease/s eme Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification 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) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2326-1BB40 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-1BB40

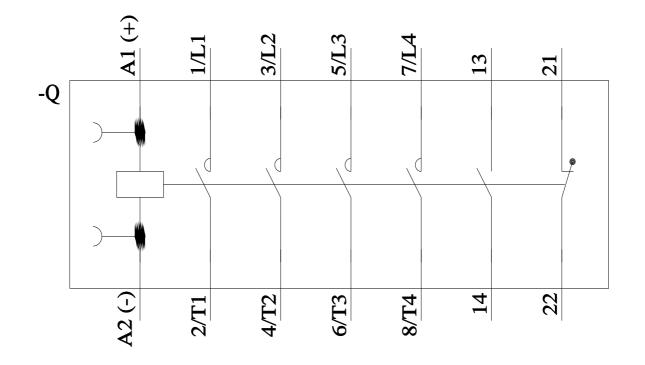
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