SIEMENS

Data sheet

3RT2325-1BB40



contactor AC-1, 35 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 	7.6 W
 at AC in hot operating state per pole 	1.9 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 	35 A

value			
• at AC-1	05 A		
— up to 690 V at ambient temperature 40 °C rated value	35 A		
— up to 690 V at ambient temperature 60 °C rated	30 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 mm²		
operating power			
at AC-3 at 400 V rated value	7.5 W		
at AC-4 at 400 V rated value	7.5 W		
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	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	0.3 A		
• at 220 V rated value	0.3 A		
• at 600 V rated value	0.3 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			
• solid	1 10 mm²		
solid or stranded	1 10 mm²		
 stranded 	1 10 mm ²		
 stranded finely stranded with core end processing 	1 10 mm² 1 10 mm²		
 finely stranded with core end processing 	1 10 mm² 1 10 mm²		

type of connectable c						
	onductor cross-sections	6				
 for auxiliary containing 	acts					
— solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
— solid or stranded			2x (0.5 1.5 mm²), 2x (0.75	2.5 mm²)		
 finely stranded with core end processing 		sing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 for AWG cables for auxiliary contacts 			2x (20 16), 2x (18 14)			
AWG number as coded connectable conductor cross section						
• for main contacts			16 8			
 for auxiliary cont; 	 for auxiliary contacts 		20 14			
Safety related data						
product function						
 mirror contact ac 	 mirror contact according to IEC 60947-4-1 		Yes			
T1 value for proof test i 61508	1 value for proof test interval or service life according to IEC 1508		20 a			
protection class IP on	the front according to I	EC 60529	IP20			
-	ne front according to IEC	C 60529	finger-safe, for vertical contact	from the front		
Communication/ Protoc	ion/ Protocol					
product function bus	product function bus communication					
Certificates/ approvals						
General Product App	roval				EMC	
Eunctional Safety/Safety of Ma-	Declaration of Confor	ccc	UL Test Certificates	LIIL	RCM Marine / Shipping	
chinery	Declaration of Como	inty	Test Certificates		Marine / Shipping	
<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping					other	
	ĴÅ	Lloyd's			Confirmation	
BUREAU VERITAS	DNV	URS	RINA	RMRS		
BUREAU VERITAS	DNV DNV	Dangerous Goo	RINA Environment	RMRS		

Siemens has decided to exit the Russian market (see here). https://press.siemens n/global/en/pressrelease/s 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).

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Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

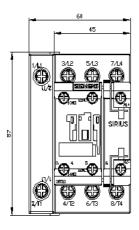
Industry Mall (Online ordering system)

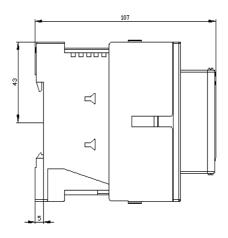
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2325-1BB40

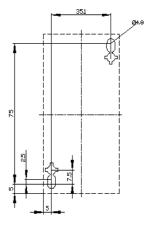
Cax online generator

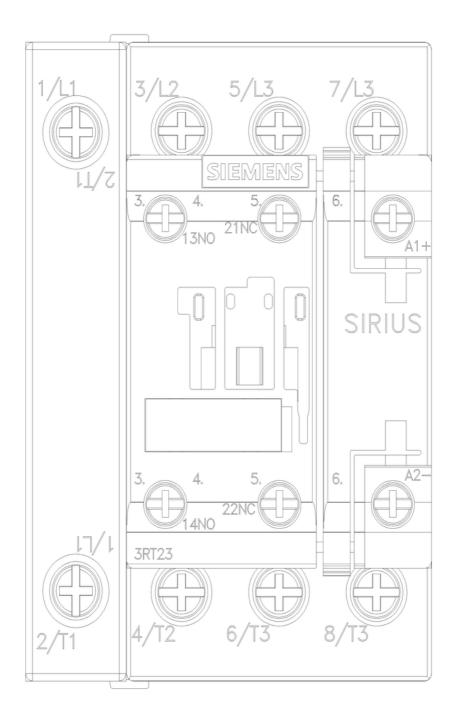
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1BB40

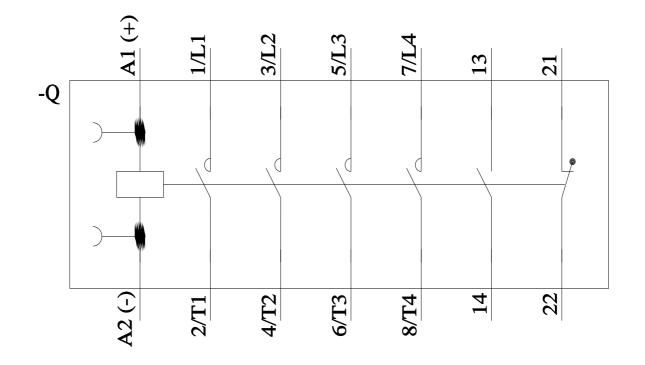
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1BB40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-1BB40&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1BB40/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1BB40&objecttype=14&gridview=view1











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