SIEMENS

Data sheet

3RT2325-1BB40



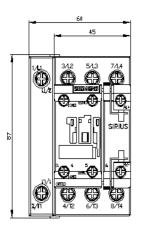
contactor AC-1, 35 A, 400 V / 40 °C, 4-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

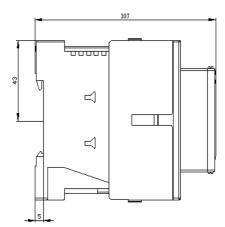
product brand name	SIRIUS		
product designation	Contactor		
product type designation	3RT23		
General technical data			
size of contactor	SO		
product extension			
 function module for communication 	No		
auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	7.6 W		
 at AC in hot operating state per pole 	1.9 W		
 without load current share typical 	5.9 W		
type of calculation of power loss depending on pole	quadratic		
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		
Weight	0.659 kg		
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 %		
Environmental footprint			
Environmental Product Declaration(EPD)	Yes		
Global Warming Potential [CO2 eq] total	293 kg		

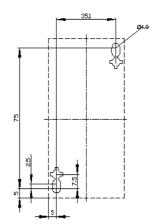
Global Warming Potential [CO2 eq] during manufacturing	3.36 kg		
Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation	290 kg		
Global Warming Potential [CO2 eq] after end of life	-0.566 kg		
Main circuit	0.000 Ng		
number of poles for main current 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			
— 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	10 mm ²		
value			
 operating power at AC-3 at 400 V rated value 	7.5 W		
• at AC-4 at 400 V rated value	7.5 W		
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		
elosing delay • at DC	50 170 ms		
opening delay	50 170 ms		
• 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	10.0		
 at 24 V rated value at 48 V rated value 	10 A 6 A		
 at 48 V rated value at 60 V rated value 	6 A		
at 50 V rated value at 110 V rated value	6 A 3 A		
at 110 V rated value at 125 V rated value	2 A		
at 125 V lated value at 220 V rated value	1A		
at 600 V rated value	0.15 A		
ש מו טטט א ומוכט אמוטכ	0.10 A		

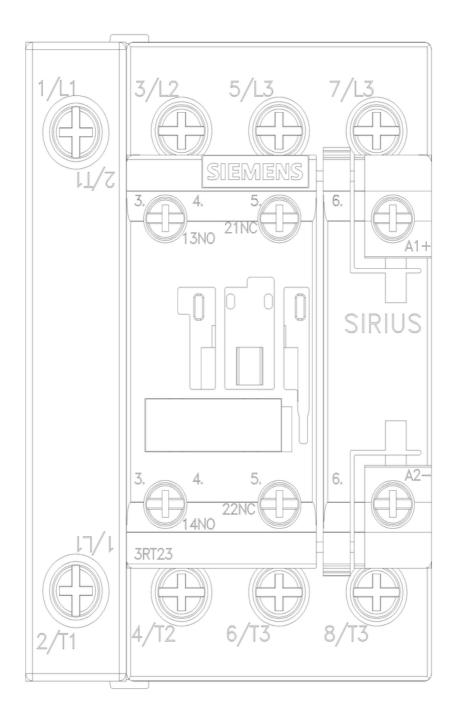
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts JL/CSA ratings	10 A 2 A 1 A 0.3 A 0.3 A			
 at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 	2 A 1 A 0.3 A 0.3 A			
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 	1 A 0.3 A 0.3 A			
at 125 V rated value at 220 V rated value at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts	0.3 A 0.3 A			
at 220 V rated value at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts	0.3 A			
• at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts				
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts	0.3 A			
of the auxiliary switch required contact reliability of auxiliary contacts				
	gG: 10 A (230 V, 400 A)			
JL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)			
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)			
nstallation/ 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 side-by-side mounting	Yes			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
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	10			
— 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 mm ²			
stranded	1 10 mm ²			
solid or stranded	0.5 2.5 mm²			
2010 01 00011000	0.5 2.5 mm ²			
 solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid solid or stranded stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 	2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 1 10 mm ² 1 10 mm ² 1 10 mm ² 1 10 mm ²			

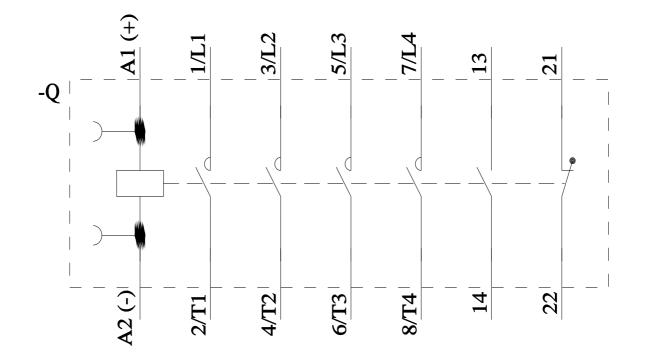
 for auxiliary cont — solid — solid or strained — finely strained for AWG cables 			2x (0.5 2x (0.5	5 1.5 mm²), 2x (0.75 2 5 1.5 mm²), 2x (0.75 2 5 1.5 mm²), 2x (0.75 2 16), 2x (18 14)	2.5 mm²)		
for main contact	S		16 8	3			
 for auxiliary cont 			20 2				
Safety related data							
product function							
mirror contact according to IEC 60947-4-1		Yes					
 positively driven 	operation according to IEC	60947-5-1	No				
Electrical Safety	· · ·						
protection class IP or	n the front according to IE	C 60529	IP20				
touch protection on t	he front according to IEC	60529	finger-	safe, for vertical contact fr	rom the front		
Communication/ Proto	col						
product function bus	communication		No				
Approvals Certificates							
General Product App	oroval						
	CE EG-Konf.	UK CA		<u>Confirmation</u>	(U) u	EHC	
EMV	Test Certificates			Marine / Shipping			
RCM	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certi</u> ates/Test Rep		ABS	BUREAU VERITAS		
Marine / Shipping				other		Railway	
Lloyd's Register urs	RINA	KMRS RMRS		<u>Miscellaneous</u>	<u>Confirmation</u>	Special Test Certific- ate	
Dangerous goods	Environment						
Transport Information	EPD	Environmental C firmations	<u>Con-</u>				
Further information 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							
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Characteristic: Trippi https://support.industry	Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1BB40/char Further characteristics (e.g. electrical endurance, switching frequency)						











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