SIEMENS

Data sheet 3RT2325-1BB40



4NO CONTACTOR, AC1: 35A DC 24V 4-POLE, 4NO, SZ: S0, SCREW TERMINAL 1NO+1NC INTEGR.

product brand name	SIRIUS
Product designation	3RT2 contactor

General technical data:	
Product expansion function module for	No
communication	
Insulation voltage	
Rated value	690 V
maximum permissible voltage for safe isolation	400 V
between coil and main contacts acc. to EN 60947-1	
Degree of pollution	3
Shock resistance	
at rectangular impulse	
— for DC	10g / 5 ms, 7,5g / 10 ms
• with sine pulse	
— for DC	15g / 5 ms, 10g / 10 ms
Surge voltage resistance Rated value	6 kV
Mechanical service life (switching cycles)	
 of the contactor typical 	10 000 000
 of the contactor with added electronics- 	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch 	10 000 000
block typical	
Thermal short-time current restricted to 10 s	124 A
Protection class IP	
• on the front	IP20

• of the terminal	IP20
Equipment marking	
● acc. to DIN EN 61346-2	Q
● acc. to DIN EN 81346-2	Q
Main circuit:	
Number of poles for main current circuit	4
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	4
Operating voltage	
 at AC-3 Rated value maximum 	690 V
Operating current	
• at AC-1	
 — at 400 V at ambient temperature 40 °C Rated value 	35 A
— up to 690 V at ambient temperature 40 °C Rated value	30 A
 up to 690 V at ambient temperature 60 °C Rated value 	30 A
• at AC-2 at 400 V Rated value	15.5 A
• at AC-3	
— at 400 V Rated value	15.5 A
• at AC-4 at 400 V Rated value	15.5 A
Operating current with 1 current path	
• at DC-1	
— at 24 V Rated value	35 A
— at 110 V Rated value	4.5 A
— at 220 V Rated value	1 A
— at 440 V Rated value	0.4 A
• at DC-3 at DC-5	
— at 24 V Rated value	20 A
— at 110 V Rated value	2.5 A
— at 220 V Rated value	1 A
— at 440 V Rated value	0.09 A
Operating current with 2 current paths in series	
• at DC-1	
— at 24 V Rated value	35 A
— at 110 V Rated value	35 A
— at 220 V Rated value	1 A
— at 440 V Rated value	1 A
• at DC-3 at DC-5	
— at 110 V Rated value	15 A
— at 220 V Rated value	3 A

— at 24 V Rated value	35 A
— at 440 V Rated value	0.27 A
Operating current with 3 current paths in series	
• at DC-1	
— at 24 V Rated value	35 A
— at 110 V Rated value	35 A
— at 220 V Rated value	30 A
— at 440 V Rated value	2.9 A
• at DC-3 at DC-5	
— at 110 V Rated value	35 A
— at 220 V Rated value	10 A
— at 24 V Rated value	35 A
— at 440 V Rated value	0.6 A
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value	11 kW
— at 400 V at 60 °C Rated value	20 kW
Active power loss at AC-3 at 400 V for rated value of	0.9 W
the operating current per conductor	
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
No-load switching frequency	
• with AC	5 000 1/h
• for DC	1 500 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	DC
Control supply voltage for DC	
Rated value	24 V
Operating range factor control supply voltage rated	0.8 1.1
value of the magnet coil for DC	
Closing power of the magnet coil for DC	5.9 W
Holding power of the magnet coil for DC	5.9 W
Closing delay	F0 470
• for DC	50 170 ms
Opening delay	45 47 5
• for DC	15 17.5 ms
Arcing time	10 10 ms
Auxiliary circuit:	

Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	1
Number of NO contacts	
• for auxiliary contacts	
— instantaneous contact	1
Product expansion Auxiliary switch	Yes
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V Rated value	10 A
at 400 V Rated value	3 A
at 690 V Rated value	1 A
Operating current at DC-12	
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
Operating current at DC-13	
at 24 V Rated value	10 A
at 60 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
Contact reliability of the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
II /CSA rational	
JL/CSA ratings: Full-load current (FLA) for three-phase AC motor	
• at 480 V Rated value	14 A
at 600 V Rated value	17 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V Rated value	1 hp
— at 230 V Rated value	3 hp
• for three-phase AC motor	
— at 200/208 V Rated value	3 hp
— at 220/230 V Rated value	5 hp
— at 460/480 V Rated value	10 hp
— at 575/600 V Rated value	15 hp
— at 575/600 V Rated value Contact rating of the auxiliary contacts acc. to UL	15 hp A600 / Q600

Design of the fuse link

- for short-circuit protection of the main circuit
 - with type of assignment 1 required
 - with type of assignment 2 required
- for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25 A fuse gL/gG: 10 A

mounting position	+/-180° rotation possible on vertical mounting surface; can be
	tilted forward and backward by +/- 22.5° on vertical mounting
	surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
. 0:1.1. :1	Yes
Side-by-side mounting	
Height	85 mm
Width	60 mm
Depth	107 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— at the side	6 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm

screw-type terminals
screw-type terminals
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
 for AWG conductors for main contacts 	2x (16 12), 2x (14 8)
• for auxiliary contacts	
— single or multi-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 conductors for auxiliary contacts 	2x (20 16), 2x (18 14)

Safety related data:	
B10 value with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Protection against electrical shock	finger-safe
Mechanical data:	
Size of contactor	S0
Ambient conditions:	
Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
Certificates/ approvals:	

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination

Declaration	O
Conformity	

Test Certificates

Shipping Approval



Special Test Certificate Type Test
Certificates/Test
Report







Shipping Approval

other



GL



LRS







Environmental Confirmations

other

Confirmation



Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

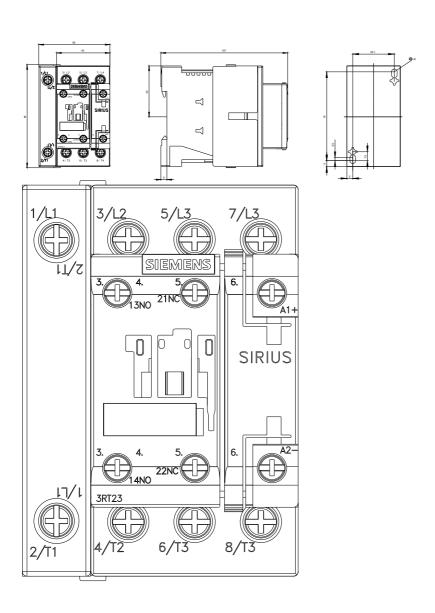
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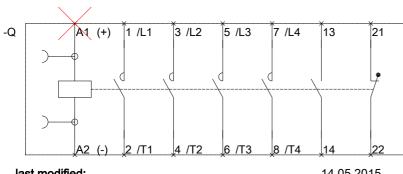
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT23251BB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT23251BB40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT23251BB40&lang=en





last modified: 14.05.2015