SIEMENS

Data sheet 3RT2325-1BB40

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



product brandname	SIRIUS
Product designation	Contactor
Product type designation	3RT23

No
Yes
690 V
3
6 kV
400 V
IP20
IP20

• 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 (switching cycles)	
 of 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	
Ambient conditions	
Ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	4
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
• at AC-1	
— up to 690 V at ambient temperature 40 °C	30 A
rated value	
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$	30 A
rated value	
• at AC-2 at 400 V rated value	15.5 A
• at AC-3	
— at 400 V rated value	15.5 A
Connectable conductor cross-section in main circuit	
at AC-1	
 at 60 °C minimum permissible 	6 mm²
 at 40 °C minimum permissible 	10 mm²

Operating	ourmont.
Operating	current

• at 1 current path at DC-1	
— at 24 V rated value	30 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 24 V rated value	30 A
— at 110 V rated value	30 A

— at 220 V rated value	1 A
— at 440 V rated value	1 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	30 A
— at 110 V rated value	30 A
— at 220 V rated value	30 A
— at 440 V rated value	2.9 A
Operating current	
• at 1 current path 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
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	30 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	30 A
— at 110 V rated value	30 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
Operating power	
● at AC-1	
— at 230 V rated value	20 kW
— at 230 V at 60 °C rated value	11 kW
— at 400 V rated value	20 kW
— at 400 V at 60 °C rated value	20 kW
● at AC-2 at 400 V rated value	7.5 kW
● at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
Thermal short-time current limited to 10 s	124 A
Power loss [W] at AC-3 at 400 V for rated value of	0.9 W
the operating current per conductor	
No-load switching frequency	5 000 1/h
• at AC	
• at DC	1 500 1/h
Operating frequency	1 000 1/h
• at AC-1 maximum	1 000 1/h
at AC-2 maximum	1 000 1/11

• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h

DC
24 V
5.9 W
5.9 W
50 170 ms
15 17.5 ms
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
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 500 V rated value	2 A
• at 690 V rated value	1 A
Operating 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
Operating current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 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 auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

UL/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
Contact rating of auxiliary contacts according to UL	A600 / Q600

Short-circuit protection

Design of the fuse link

• for short-circuit protection of the main circuit

— with type of coordination 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 63 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A

fuse gG: 10 A

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	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting 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	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
— upwards— downwards	0 mm 0 mm

Connections/Terminals		
Type of electrical connection		
for main current circuit	screw-type terminals	
 for auxiliary and control current circuit 	screw-type terminals	
Type of connectable conductor cross-sections		
• for main contacts		
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
 single or multi-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	
 at AWG conductors for main contacts 	2x (16 12), 2x (14 8)	
Type of connectable conductor cross-sections		
 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)	
 at 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 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	100 FIT
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

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination

Declaration	of
Conformity	

Test Certificates

Shipping Approval



Special Test Certificate Type Test
Certificates/Test
Report







GL

Shipping Approval











Environmental Confirmations

Confirmation

other



Further information

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

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

Industry Mall (Online ordering system)

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

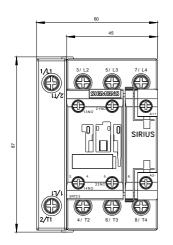
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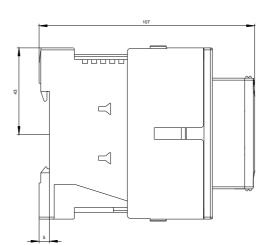
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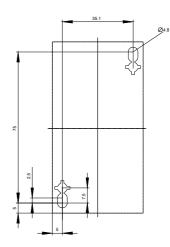
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

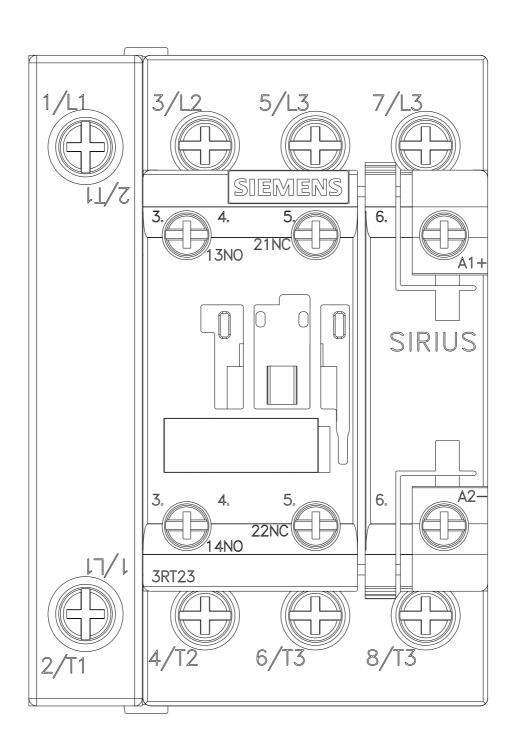
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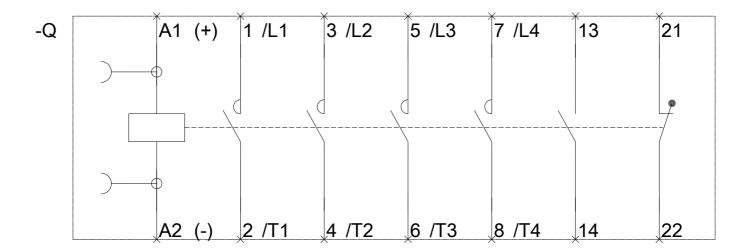
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-1BB40&lang=en











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