SIEMENS

Data sheet	3RT2325-1BM40-Z X95		
	4NO CONTACTOR, AC1: 35A DC 220V 4-POLE, 4NO, SZ: S0,		
	SCREW TERMINAL 1NO+1NC INTEGR. REUSABLE PACKAGING		
	PACKAGE = 48 PIECES		
product brand name	SIRIUS		
Product designation	3RT2 contactor		
General technical data			
Size of contactor	S0		
Product extension			
 function module for communication 	No		
Auxiliary switch	Yes		
Insulation voltage			
• rated value	690 V		
Degree of pollution	3		
Surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation			
 between coil and main contacts acc. to EN 60947-1 	400 V		
Protection class IP			
• on the front	IP20		
• of the terminal	IP20		
Shock resistance			
at rectangular impulse			
— at DC	10g / 5 ms, 7,5g / 10 ms		
• 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- compatible auxiliary switch block typical	5 000 000		
 of the contactor with added auxiliary switch block typical 	10 000 000		
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		
Main circuit			

Number of poles for main current circuit	4
Number of NO contacts for main contacts	4
Number of NC contacts for main contacts	0
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 rated value	35 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
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 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
 with 2 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	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 110 V rated value	15 A		
— at 220 V rated value	3 A		
— at 24 V rated value	30 A		
— at 440 V rated value	0.27 A		
• with 3 current paths in series at DC-3 at DC-5			
— at 110 V rated value	30 A		
— at 220 V rated value	10 A		
— at 24 V rated value	30 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			
• at DC	1 500 1/h		
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		
Control circuit/ Control			
Type of voltage of the control supply voltage	DC		
Control supply voltage at DC			
• rated value	220 V		
Operating range factor control supply voltage rated	0.8 1.1		
value of magnet coil at DC			
Closing power of magnet coil at DC	5.9 W		
Holding power of magnet coil at DC	5.9 W		
Closing delay	50 470 mg		
• at DC	50 170 ms		
Opening delay	15 17.5 ms		
• at DC	10 17.01118		

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			
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	0.9 A			
• at 220 V rated value	0.3 A			
• at 600 V rated value	0.1 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

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gL/gG: 10 A

Mounting position	+/-180° rotation possible on vertical mounting surface; can be
violating position	tilted forward and backward by +/- 22.5° on vertical mounting
	surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
woulding type	according to DIN EN 50022
Side-by-side mounting	Yes
Height	85 mm
V idth	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

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	

Certificates/approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Shipping Approval









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Shipping Approval

other





Bestätigungen

Umweltbestätigung



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=3RT2325-1BM40-Z X95

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1BM40-Z X95

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1BM40-Z X95

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-1BM40-Z X95&lang=en

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