SIEMENS

Data sheet

3RA2325-8XB30-1BB4



REV. COMB., AC3, 7.5KW/ 400V DC24V 3-POLE, SZ S0 SCREW TERMINAL ELECTR. AND MECH. INTERLOCK 2NO INTEGR.

product brand name	SIRIUS		
Product designation	star-delta (wye-delta) contactor assembly 3RA24		
Manufacturer article number			
 1 of the supplied contactor 	<u>3RT2025-1BB40</u>		
 2 of the supplied contactor 	<u>3RT2025-1BB40</u>		
 of the supplied RH assembly kit 	3RA2923-2AA1		

General technical data:			
Insulation voltage			
 with degree of pollution 3 Rated value 	V	690	
Degree of pollution		3	
Shock resistance		9.8g / 5 ms and 5.9g / 10 ms	
Surge voltage resistance Rated value	kV	6	
Mechanical service life (switching cycles)			
 of the contactor typical 		10 000 000	
 of the contactor with added auxiliary switch 		10 000 000	
block typical			
Protection class IP			
• on the front		IP20	
Equipment marking			
• acc. to DIN EN 81346-2		Q	
Main circuit:			

Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Operating voltage	

 at AC-3 Rated value maximum 	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	А	40
— at 400 V at ambient temperature 60 °C Rated value	A	35
• at AC-2 at 400 V Rated value	А	17
• at AC-3		
— at 400 V Rated value	А	17
• at AC-4 at 400 V Rated value	А	15.5
Operating current with 1 current path	_	
● at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	4.5
● at DC-3 at DC-5		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	2.5
Operating current with 2 current paths in series	-	
• at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	35
● at DC-3 at DC-5		
— at 110 V Rated value	А	15
— at 24 V Rated value	А	35
Operating current with 3 current paths in series	-	
● at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	35
● at DC-3 at DC-5		
— at 110 V Rated value	А	35
— at 24 V Rated value	А	35
Operating power	-	
• at AC-2 at 400 V Rated value	kW	7.5
• at AC-4 at 400 V Rated value	kW	7.5
Operating power		
• at AC-3		
— at 400 V Rated value	kW	7.5
— at 500 V Rated value	kW	10
— at 690 V Rated value	kW	11
Operating frequency		
• at AC-3 maximum	1/h	1 000

No-load switching frequency	1/h	1 500			
Control circuit/ Control:					
Type of voltage of the control supply voltage	_	DC			
Control supply voltage 1					
• for DC Rated value	V	24			
Operating range factor control supply voltage rated value of the magnet coil for DC		0.8 1.1			
Closing power of the magnet coil for DC	W	5.9			
Holding power of the magnet coil for DC	W	5.9			
Auxiliary circuit:					
Number of NC contacts					
 for auxiliary contacts 					
— per direction of rotation		0			
— instantaneous contact		0			
— lagging switching		0			
Number of NO contacts					
 for auxiliary contacts 					
— per direction of rotation		0			
— instantaneous contact		0			
— leading contact		0			
Product expansion Auxiliary switch		Yes			
Operating current of the auxiliary contacts at AC-12	А	10			
maximum					
Operating current of the auxiliary contacts at AC-15					
• at 230 V	А	6			
● at 400 V	А	3			
Operating current of the auxiliary contacts at DC-13					
• at 24 V	А	10			
• at 60 V	А	2			
● at 110 V	А	1			
● at 220 V	А	0.3			
Contact reliability of the auxiliary contacts		< 1 error per 100 million operating cycles			
UL/CSA ratings:					
Full-load current (FLA) for three-phase AC motor					
● at 480 V Rated value	А	14			
• at 600 V Rated value	А	17			
yielded mechanical performance [hp]					
 for single-phase AC motor at 110/120 V Rated value 	metric hp	1			
 for single-phase AC motor at 230 V Rated value 	metric hp	3			

• for three-phase AC motor at 220/230 V Rated	metric	5
value	hp	10
 for three-phase AC motor at 460/480 V Rated value 	metric hp	10
 for three-phase AC motor at 575/600 V Rated value 	metric hp	15
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
 for short-circuit protection of the main circuit 		
— with type of assignment 1 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
— with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
 for short-circuit protection of the auxiliary switch 		fuse gL/gG: 10 A
required		
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
Uninht		mounting rail 101
Height Width	mm	90
Depth	mm	107
Required spacing		
• with side-by-side mounting		
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6
• for grounded parts		Ŭ.
— forwards	mm	6
— Backwards	mm	0
	mm	6
— upwards		6
— at the side	mm	6
— downwards	mm	Ŭ
• for live parts	mm	6
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6

— at the side	mm	6
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-section		
• for main contacts		
— 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
 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)
Cofety, velated data,	_	
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 	%	75
Failure rate [FIT] with low demand rate acc. to SN	FIT	100
31920		
T1 value for proof test interval or service life acc. to IEC 61508	у	20
Protection against electrical shock		finger-safe
Mechanical data:		
Size of contactor		S0
Communication/ Protocol:		
Product function Bus communication		No
Protocol is supported	-	
AS-interface protocol		No
Product function Control circuit interface with IO link		No
Ambient conditions:	_	
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
• during operation	°C	-25 +60
• during storage	°C	-55 +80
Certificates/ approvals:		

General Produc	t Approval		Declaration of Conformity	Test Certificates	Shipping Approval				
CSA CSA		EHC	EG-Konf.	Special Test Certificate	ABS				
Shipping Approv	Shipping Approval								
BUREAU VERITAS		GL	Lloyd's Kegister Lrs	PRS	RINA				
Shipping	other								
Approval		· · · · · · · · · · · · · · · · · · ·							
RMRS	Environmental Confirmations	<u>other</u>							

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

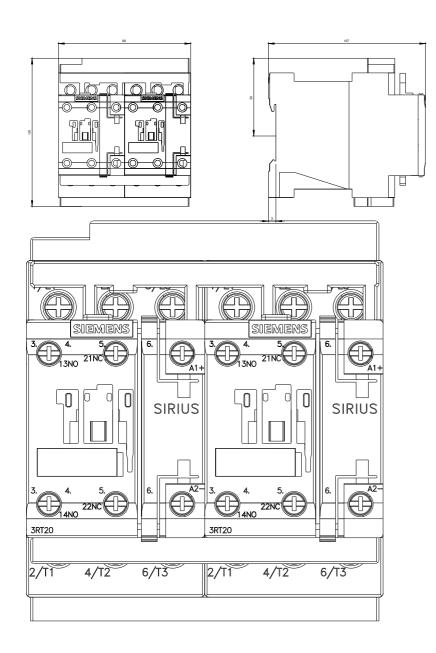
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

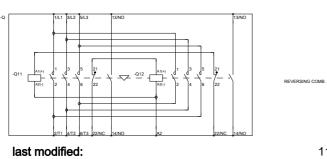
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA23258XB301BB4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA23258XB301BB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA23258XB301BB4&lang=en





REVERSING COMB. SZ S0

WENDEKOMBINATION BGR. S0

11.03.2015