SIEMENS

Data sheet

3RA2324-8XB30-1AG2



REV. COMB., AC3, 5.5KW/ 400V AC110V, 50/60HZ, 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 	3RT2024-1AG20
 2 of the supplied contactor 	3RT2024-1AG20
 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		12.5g / 5 ms and 7.8g / 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 Operating current at AC-1 — at 400 V at ambient temperature 40 °C Rated value — at 400 V at ambient temperature 60 °C Rated value at AC-2 at 400 V Rated value at AC-3 — at 400 V Rated value at AC-4 at 400 V Rated value	A A A	690 40 35 12
 at AC-1 at 400 V at ambient temperature 40 °C Rated value at 400 V at ambient temperature 60 °C Rated value at AC-2 at 400 V Rated value at AC-3 at 400 V Rated value at AC-4 at 400 V Rated value 	A A	35
 at 400 V at ambient temperature 40 °C Rated value at 400 V at ambient temperature 60 °C Rated value at AC-2 at 400 V Rated value at AC-3 at 400 V Rated value at AC-4 at 400 V Rated value 	A A	35
Rated value — at 400 V at ambient temperature 60 °C Rated value • at AC-2 at 400 V Rated value • at AC-3 — at 400 V Rated value • at AC-4 at 400 V Rated value	A A	35
Rated value • at AC-2 at 400 V Rated value • at AC-3 — at 400 V Rated value • at AC-4 at 400 V Rated value	Α	
at AC-3— at 400 V Rated valueat AC-4 at 400 V Rated value		12
— at 400 V Rated value ● at AC-4 at 400 V Rated value	A	
• at AC-4 at 400 V Rated value	Α	
		12
	Α	12.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	4.5
• at DC-3 at DC-5		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.5
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	35
• at DC-3 at DC-5		
— at 110 V Rated value	Α	15
— at 24 V Rated value	Α	35
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	35
• at DC-3 at DC-5		
— at 110 V Rated value	Α	35
— at 24 V Rated value	Α	35
Operating power		
• at AC-2 at 400 V Rated value	kW	5.5
• at AC-4 at 400 V Rated value	kW	5.5
Operating power		
• at AC-3		
— at 400 V Rated value	kW	5.5
— at 500 V Rated value	kW	7.5
— at 690 V Rated value	kW	7.5
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		AC
Control supply voltage 1 with AC		
● at 50 Hz Rated value	V	110
● at 60 Hz Rated value	V	110
Operating range factor control supply voltage rated		
value of the magnet coil with AC		
• at 50 Hz		0.8 1.1
● at 60 Hz		0.8 1.1
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	Α	10
maximum		
Operating current of the auxiliary contacts at AC-15	Δ.	
● at 230 V	A	6
• at 400 V	Α	3
Operating current of the auxiliary contacts at DC-13		
● at 24 V	Α	10
● at 60 V	A	2
● at 110 V	Α	1
• at 220 V	Α	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	Α	11
• at 600 V Rated value	Α	11
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	2
 for three-phase AC motor at 220/230 V Rated value 	metric hp	3
 for three-phase AC motor at 460/480 V Rated value 	metric hp	7.5
 for three-phase AC motor at 575/600 V Rated value 	metric hp	10
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 required 	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
Height	mm	101
Width	mm	90
Depth	mm	97
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		
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— at the side	mm	6
— downwards	mm	6
• for live parts		
— 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)
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	65

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 31920	FIT	100
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	
	00	

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 Product Approval

Declaration of Conformity

Test Certificates **Shipping Approval**









Special Test Certificate



Shipping Approval













Shipping Approval other



Environmental Confirmations

other

Further information

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

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

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

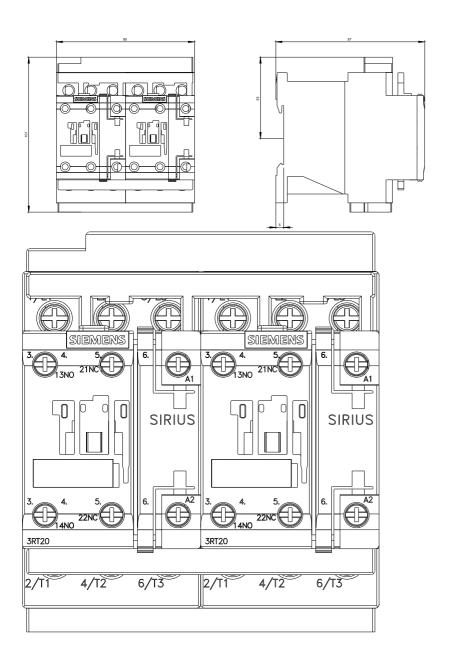
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA23248XB301AG2

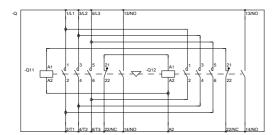
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RA23248XB301AG2/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=3RA23248XB301AG2&lang=en



WENDEKOMBINATION BGR. S0



REVERSING COMB. SZ S

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