SIEMENS

Data sheet

3RA2324-8XB30-1AP6



REV. COMB.,AC3, 5.5KW/400V AC220V 50HZ/240V 60HZ 3-POLE, SZ S0 SCREW TERMINAL ELECTR. AND MECH. INTERLOCK 2NO INTEGR.

SIRIUS
star-delta (wye-delta) contactor assembly 3RA24
<u>3RT2024-1AL20</u>
<u>3RT2024-1AL20</u>
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:			

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	A	40
— at 400 V at ambient temperature 60 °C Rated value	A	35
 at AC-2 at 400 V Rated value 	А	12
• at AC-3		
— at 400 V Rated value	А	12
• at AC-4 at 400 V Rated value	А	12.5
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	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

Control circuit/ Control: AC Type of vollage of the control supply voltage 1 with AC AC • at 50 Hz Rated value V 220 • at 50 Hz Rated value V 240 Operating range factor control supply voltage rated value of the magnet coll with AC 0.8 1.1 • at 50 Hz 0.8 1.1 0.8 1.1 • at 50 Hz 0.8 1.1 0.8 1.1 Auxiliary circuit 0.8 1.1 0.8 1.1 Auxiliary contacts 0 0 - per direction of rotation 0 0 - lagging switching 0 0 Number of NC contacts 0 0 - per direction of rotation 0 0 - leading contact 0 0 Product expansion Auxiliary switch Yes Yes Operating current of the auxiliary contacts at AC-15 4 10 • a	No-load switching frequency	1/h	1 500			
Type of voltage of the control supply voltage AC Control supply voltage 1 with AC • at 50 Hz Rated value V • at 50 Hz Rated value V 220 Operating range factor control supply voltage rated value of the magnet col with AC 0.8 1.1 • at 50 Hz 0.9 1.1 • at 50 Hz 0.9 1.1 • at 50 Hz 0 • for auxiliary contacts 0 • of auxiliary contacts 0 • for auxiliary contacts at AC-12 0 • for auxiliary contacts at AC-12 0 • for auxiliary contacts at AC-13 0 • for auxiliary contacts at AC-14 4 • at 200 V A 6 • at 200 V A 2 • at 400 V A 1						
Control supply voltage 1 with AC V 220 • at 50 Hz Rated value V 240 Operating range factor control supply voltage rated value of the magnet coll with AC V 240 • at 50 Hz 0.8 1.1 0.8 1.1 • for auxiliary contacts 0 0 - lagging switching 0 0 • for auxiliary contacts 0 0 - lagging switching 0 0 • for auxiliary contacts 0 0 - leading contact 0 0 • at 230 V A 6 • at 60 V A 3 Operating current of the auxiliary contacts at AC-12 A 10 • at 60 V A 3 Operating current of the auxiliary contacts at DC-13 - - • at 60 V A 10 - • at 20 V A 0.3		_				
• at 50 Hz Rated valueV220• at 60 Hz Rated valueV240Operating range factor control supply voltage rated value of the magnet coll with AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1Auxiliary circuit0.8 1.1Number of NC contacts0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- lagging switching0Number of NO contacts0• for auxiliary contacts0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- per direction of rotation0- instantaneous contact0- per direction of rotation0- instantaneous contact0- leading contact0Operating current of the auxiliary contacts at AC-15A• at 230 VA3• at 230 VA3• at 24 VA10• at 24 VA10• at 20 VA3• at 20 VA3• at 20 VA1• at 480 V Rated valueA11• at 480 V Rated valueA11• at 480 V Rated valueA11 </td <td></td> <td></td> <td>AC</td>			AC			
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Operating range factor control supply voltage rated value of the magnet coll with AC 0.8 1.1 • at 50 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 Auxiliary circuit: 0.8 1.1 Number of NC contacts 0 • for auxiliary contacts 0 - per direction of rotation 0 - instantaneous contact 0 • for auxiliary contacts 0 - per direction of rotation 0 - lagging switching 0 Number of NC contacts 0 - per direction of rotation 0 - instantaneous contact 0 - per direction of rotation 0 - instantaneous contact 0 - leading contact 0 Product expansion Auxiliary witch Yes Operating current of the auxiliary contacts at AC-12 maximum A Operating current of the auxiliary contacts at AC-12 maximum A Operating current of the auxiliary contacts at AC-13 • at 230 V A • at 600 V A 3 Operating current of the auxiliary contacts at CC-13 • at 60 V A • at 600 V A 1 • at 600 V A 0.3 Contact reliability of three-phase AC motor A 1 • at	• at 50 Hz Rated value	V	220			
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• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1Auxiliary circuit:Number of NC contacts• for auxiliary contacts- per direction of rotation0- instantaneous contact0- lagging switching0• for auxiliary contacts0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- leading contact0Operating current of the auxiliary contacts at AC-12 maximumAOperating current of the auxiliary contacts at AC-12 maximumA02• at 230 VA• at 230 VA• at 24 V • at 400 VA• at 24 V • at 100 VA• at 220 VA• at 220 VA• at 220 VA• at 420 V • at 420 VA• at 220 VA• at 420 V • at 420 V• at 420 V 						
• at 60 Hz 0.81.1 Auxiliary circuit: 0.81.1 Auxiliary circuit: 0 - per direction of rotation 0 - instantaneous contact 0 - lagging switching 0 Number of NC contacts 0 - lagging switching 0 Number of NC contacts 0 - lagging switching 0 Number of NC contacts 0 - per direction of rotation 0 - per direction of rotation 0 - instantaneous contact 0 - leading contact 0 Operating current of the auxiliary contacts at AC-12 A maximum A 10 Operating current of the auxiliary contacts at AC-12 A • at 230 V A 6 • at 400 V A 3 Operating current of the auxiliary contacts at DC-13 I • at 400 V A 10 • at 24 V A 10 • at 220 V A 0.3 Contact reliability of the auxiliary contacts < 1 error per 100 million operating cycles	-					
Auxiliary contacts • for auxiliary contacts - per direction of rotation - instantaneous contact - lagging switching 0 Number of NO contacts • for auxiliary contacts - per direction of rotation - lagging switching 0 Number of NO contacts • for auxiliary contacts - per direction of rotation - per direction of rotation - instantaneous contact 0 - leading contact 0 Operating current of the auxiliary contacts at AC-12 maximum Operating current of the auxiliary contacts at AC-15 • at 230 V • at 400 V Operating current of the auxiliary contacts at DC-13 • at 24 V • at 400 V A 0 • at 400 V A • at 220 V A • at 280 V Rated value • at 480 V Rated value • at 600 V Rated value </td <td>● at 50 Hz</td> <td></td> <td></td>	● at 50 Hz					
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• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- lagging switching0Number of NO contacts0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- leading contact0Operating current of the auxiliary contacts at AC-12 maximumAOperating current of the auxiliary contacts at AC-15 • at 230 VA• at 240 VA• at 240 VA• at 240 VA• at 250 VA• at 20 VA• at 480 V Rated valueA• at 480 V Rated valueA• at 480 V Rated valueA• at 480 V	Auxiliary circuit:					
	Number of NC contacts					
	 for auxiliary contacts 					
	— per direction of rotation		0			
Number of N0 contacts 0 - per direction of rotation 0 - instantaneous contact 0 - leading contact 0 - leading contact 0 Product expansion Auxiliary switch Yes Operating current of the auxiliary contacts at AC-12 maximum A Operating current of the auxiliary contacts at AC-15 A • at 230 V A • at 400 V A Operating current of the auxiliary contacts at DC-13 - • at 400 V A • at 230 V A • at 20 V A • at 400 V A • at 20 V A • at 40 V A • at 40 V A • at 40 V A • at 400 V A • at 400 V A • at 60 V A • at 60 V A • at 420 V A • at 420 V A • at 400 V Ra	— instantaneous contact		0			
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	Number of NO contacts	-				
- instantaneous contact 0 - leading contact 0 Product expansion Auxiliary switch Yes Operating current of the auxiliary contacts at AC-12 maximum A 10 Operating current of the auxiliary contacts at AC-15 A 6 • at 230 V A 6 • at 400 V A 3 Operating current of the auxiliary contacts at DC-13 Image: Contact at Contacts at Contact reliability of the auxiliary contacts Image: Contact reliability of the auxiliary contacts UL/CSA ratings: Image: Contact reliability of the auxiliary contacts Image: Contact reliability of the auxiliary contacts UL/CSA ratings: Image: Contact reliability of the auxiliary contacts Image: Contact reliability of the auxiliary contacts Image: Contact reliability of the auxiliary contacts Image: Contact reliability of the auxiliary contacts Image: Contact reliability of the auxiliary contacts Image: Contact reliability of the auxiliary contacts Image: Contact reliability contacts Image: Contact reliability con	 for auxiliary contacts 					
— leading contact 0 Product expansion Auxiliary switch Yes Operating current of the auxiliary contacts at AC-12 maximum A 10 Operating current of the auxiliary contacts at AC-15 A 6 • at 230 V A 6 • at 400 V A 3 Operating current of the auxiliary contacts at DC-13 - • at 400 V A 3 Operating current of the auxiliary contacts at DC-13 - • at 24 V A 10 • at 250 V A 2 • at 24 V A 10 • at 20 V A 2 • at 20 V A 1 • at 220 V A 0.3 Contact reliability of the auxiliary contacts < 1 error per 100 million operating cycles	— per direction of rotation		0			
Product expansion Auxiliary switch Yes Operating current of the auxiliary contacts at AC-12 maximum A 10 Operating current of the auxiliary contacts at AC-15 A 6 • at 230 V A 6 • at 230 V A 3 Operating current of the auxiliary contacts at AC-15 - • at 20 V A 3 Operating current of the auxiliary contacts at DC-13 - • at 24 V A 10 • at 22 V A 10 • at 220 V A 0.3 Contact reliability of the auxiliary contacts - • at 220 V A 0.3 Contact reliability of the auxiliary contacts - UL/CSA ratings: - Full-load current (FLA) for three-phase AC motor - 1 • at 800 V Rated value A 11 • at 600 V Rated value A 11 • at 600 V Rated value A 11 • of 000 V Rated value A 11	— instantaneous contact		0			
Operating current of the auxiliary contacts at AC-12 maximum A 10 Operating current of the auxiliary contacts at AC-15 A 6 • at 230 V A 6 • at 400 V A 3 Operating current of the auxiliary contacts at DC-13	— leading contact		0			
maximumImage: current of the auxiliary contacts at AC-15Image: current of the auxiliary contacts at AC-15• at 230 VA6• at 400 VA3Operating current of the auxiliary contacts at DC-13Image: current of the auxiliary contacts at DC-13• at 24 VA10• at 24 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contactsImage: current of the auxiliary contactsUL/CSA ratings:Image: current (FLA) for three-phase AC motor• at 480 V Rated valueA11• at 600 V Rated valueA11• at 600 V Rated valueA11• of contact reliability of that under the phase AC motorImage: current (FLA) for three-phase AC motor• at 600 V Rated valueA11• of contact at 110/120 V RatedImage: current (FLA) for three-phase AC motor at 110/120 V Rated	Product expansion Auxiliary switch		Yes			
Operating current of the auxiliary contacts at AC-15A6• at 230 VA6• at 400 VA3Operating current of the auxiliary contacts at DC-13Image: Contact at DC-13• at 24 VA10• at 20 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contactsV Contact reliability of three-phase AC motor• at 480 V Rated valueA11• at 600 V Rated valueA11• of or single-phase AC motor at 110/120 V Ratedmetric1	Operating current of the auxiliary contacts at AC-12	A	10			
• at 230 VA6• at 400 VA3Operating current of the auxiliary contacts at DC-13-• at 24 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contacts	maximum					
• at 400 VA3• at 400 VA3Operating current of the auxiliary contacts at DC-13-• at 24 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contacts-< 1 error per 100 million operating cycles	Operating current of the auxiliary contacts at AC-15	-				
Operating current of the auxiliary contacts at DC-13Image: contact at a book at a contact at a book at a contact at a book at a contact	• at 230 V	А	6			
• at 24 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contacts< 1 error per 100 million operating cyclesUL/CSA ratings:UL/CSA ratings:Full-load current (FLA) for three-phase AC motor • at 480 V Rated valueA11• at 480 V Rated valueA11• at 600 V Rated valueA11• for single-phase AC motor at 110/120 V Ratedmetric1	• at 400 V	А	3			
 at 60 V at 110 V at 110 V A A Contact reliability of the auxiliary contacts Contact reliability of the auxiliary contacts	Operating current of the auxiliary contacts at DC-13	-				
 at 110 V at 220 V A Contact reliability of the auxiliary contacts Contact reliability of the auxiliary contacts < 1 error per 100 million operating cycles UL/CSA ratings: UL/CSA ratings: VII-load current (FLA) for three-phase AC motor at 480 V Rated value A A A A 11 A 11	• at 24 V	А	10			
• at 220 V A 0.3 Contact reliability of the auxiliary contacts < 1 error per 100 million operating cycles	• at 60 V	А	2			
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 A • at 600 V Rated value A • at 600 V Rated value A • for single-phase AC motor at 110/120 V Rated metric 1 1	● at 110 V	А	1			
UL/CSA ratings: Full-load current (FLA) for three-phase AC motor A 11 • at 480 V Rated value A 11 • at 600 V Rated value A 11 • pielded mechanical performance [hp] • • • for single-phase AC motor at 110/120 V Rated metric 1	● at 220 V	А	0.3			
Full-load current (FLA) for three-phase AC motor A 11 • at 480 V Rated value A 11 • at 600 V Rated value A 11 yielded mechanical performance [hp]	Contact reliability of the auxiliary contacts	-	< 1 error per 100 million operating cycles			
Full-load current (FLA) for three-phase AC motor A 11 • at 480 V Rated value A 11 • at 600 V Rated value A 11 yielded mechanical performance [hp]	UL/CSA ratings:					
• at 600 V Rated value A 11 yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Rated metric 1						
yielded mechanical performance [hp] metric 1	• at 480 V Rated value	А	11			
yielded mechanical performance [hp] metric • for single-phase AC motor at 110/120 V Rated metric	• at 600 V Rated value	А	11			
for single-phase AC motor at 110/120 V Rated metric	yielded mechanical performance [hp]					
		metric	1			
	value	hp				

• for single phase AC materiat 220 V Dated	metric	2	
 for single-phase AC motor at 230 V Rated value 	hp	2	
 for three-phase AC motor at 220/230 V Rated 	metric	3	
value	hp		
 for three-phase AC motor at 460/480 V Rated 	metric	7.5	
value	hp		
• for three-phase AC motor at 575/600 V Rated	metric	10	
value	hp	AC00 / OC00	
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 +/-	
Mounting two		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		SO
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:		

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	Test	Shipping		
			Conformity	Certificates	Approval		
CSA		EHC	EG-Konf.	Special Test Certificate	ABS		
Shipping Appro	val						
B U R E A U VE R I T A S		GL	Lloyd's Register Lrs	PRS	RINA		
Shipping	other						
Approval							
RMRS	Environmental Confirmations	<u>other</u>					

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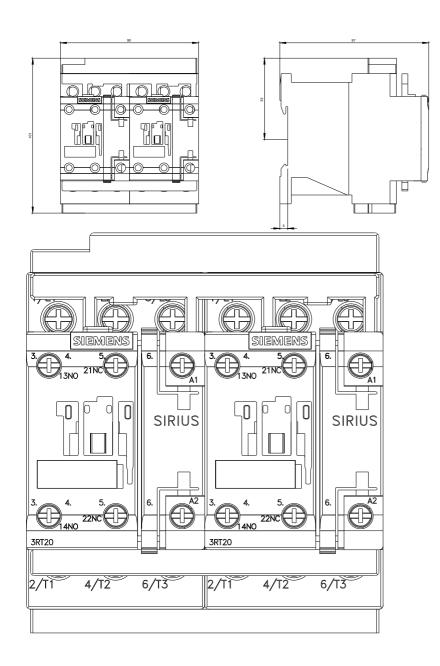
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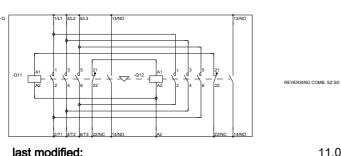
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA23248XB301AP6

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA23248XB301AP6/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=3RA23248XB301AP6&lang=en





WENDEKOMBINATION BGR. S0

last modified:

11.03.2015