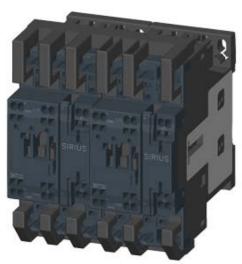
SIEMENS

Data sheet

3RA2324-8XB30-2AG2



REV. COMB., AC3, 5.5KW/ 400V AC110V, 50/60HZ, 3-POLE, SZ S0 SPRING-LOADED 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	3RT2024-2AG20
2 of the supplied contactor	3RT2024-2AG20
 of the supplied RH assembly kit 	3RA2923-2AA2

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

nstallation/ mounting/ dimensions:			
mounting position		+/-180° rotation possible on vertical mounting	
		surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
Manager		-	
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail	
Height	mm	114	
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		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (1 10 mm²)
 finely stranded with core end processing 		2x (1 6 mm²)
 finely stranded without core end processing 		2x (1 6 mm²)
 for AWG conductors for main contacts 		1x (18 8)
 for auxiliary contacts 		
 single or multi-stranded 		2x (0,5 2,5 mm²)
 finely stranded with core end processing 		2x (0.5 1.5 mm²)
 finely stranded without core end processing 		2x (0.5 1.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 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	50

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	Test	Shipping
	Conformity	Certificates	Approval









Special Test Certificate



Shipping Approval

















Shipping	other
Approval	



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

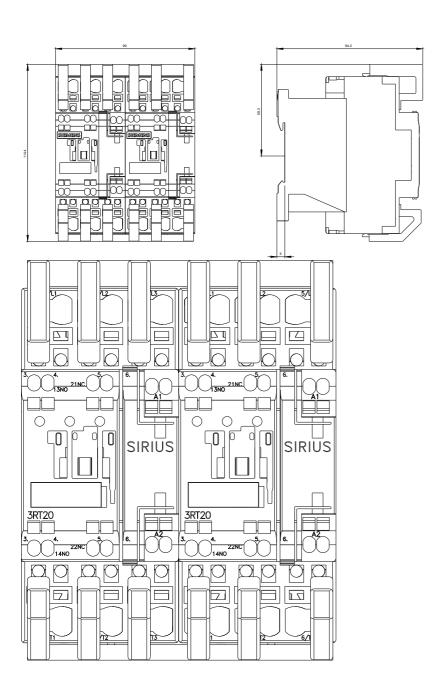
Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA23248XB302AG2}\\$

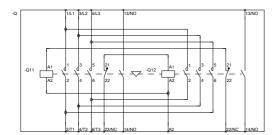
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RA23248XB302AG2/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=3RA23248XB302AG2&lang=en



WENDEKOMBINATION BGR. S0



REVERSING COMB. SZ SC

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