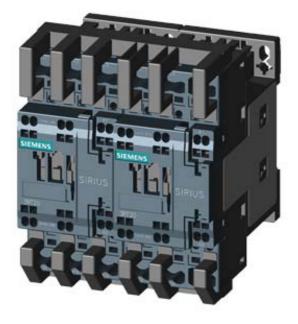
SIEMENS

Product 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.

General technical data:		
Product brand name		SIRIUS
product designation		star-delta (wye-delta) contactor assembly 3RA24
Product function		reversing contactor
Size of the contactor		S0
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during transport	°C	-55 80
during storage	°C	-55 80
during operating	°C	-25 60
Resistance against shock		12.5g / 5 ms and 7.8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / per conductor / typical	W	0.5
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		К
according to DIN EN 61346-2		Q

Manufacturer article number			
 1 / of the contactor included in the scope of supply 		<u>3RT2024-2AG20</u>	
 2 / of the contactor included in the scope of supply 	<u>3RT2024-2AG20</u>		
of the RS applied assembly kit		3RA2923-2AA2	
Mechanical operating cycles as operating time			
of the main contacts / typical		10,000,000	
 of the auxiliary contacts / typical 		10,000,000	
of the contactor / typical		10,000,000	
• of the contactor with added auxiliary switch block / typical		10,000,000	
Communication:			
Product function			
bus-communication		No	
 control circuit interface with IO link 		No	
Protocol / will be supported / AS interface protocol		No	
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 40 °C ambient temperature / rated value	А	40	
• at 60 °C ambient temperature / rated value	А	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	5.5	
• with 1 current path / at DC-1			
• at 24 V / rated value	А	35	
• at 110 V / rated value	А	4.5	
• with 2 current paths in series / at DC-1			
• at 24 V / rated value	• at 24 V / rated value A		
• at 110 V / rated value	at 110 V / rated value		
• with 3 current paths in series / at DC-1			
• at 24 V / rated value	А	35	
• at 110 V / rated value	A	35	
• with 1 current path / at DC-3 / at DC-5			
• at 24 V / rated value	A	20	
• at 110 V / rated value	А	2.5	

• with 2 current paths in series / at DC-3 / at DC-5		
at 24 V / rated value	А	35
• at 110 V / rated value	А	15
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	35
• at 110 V / rated value	А	35
Service power		
• at AC-2 / at 400 V / rated value	kW	5.5
• 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
• at AC-4 / at 400 V / rated value	kW	2.6
Off-load operating frequency	1/h	15
Frequency of operation		
• at AC-1 / according to IEC 60947-6-2 / maximum	1/h	1,000
at AC-2 / according to IEC 60947-6-2 / maximum	1/h	1,000
• at AC-3 / according to IEC 60947-6-2 / maximum	1/h	1,000
• at AC-4 / according to IEC 60947-6-2 / maximum	1/h	300
Control circuit:		
Design of activation		conventional
Type of voltage / of the controlled supply voltage		AC
Control supply voltage frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
• at 50 Hz / for AC / rated value	V	110
• at 60 Hz / for AC / rated value	V	110
Operating range factor control supply voltage rated value / of the solenoid		
• at 50 Hz / for AC		0.8 1.1

• at 60 Hz / for AC

Inductive power factor

with the pull-in power of the coilwith the pull-in power of the coil

Product extension / auxiliary switch

Apparent pull-in power / of the solenoid / for AC

Apparent holding power / of the solenoid / for AC

0.8 ... 1.1

65

8.5

0.82

0.25

Yes

V·A

V•A

Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles	
Number of NC contacts / for auxiliary contacts			
per direction of rotation		0	
instantaneous switching		0	
lagging switching		0	
Number of NO contacts / for auxiliary contacts			
per direction of rotation		0	
instantaneous switching		0	
leading switching		0	
Operating current / of the auxiliary contacts			
• at AC-12 / maximum	A	10	
• at AC-15			
• at 230 V	A	6	
• at 400 V	A	3	
• at DC-12			
• at 48 V	А	6	
• at 60 V	А	6	
• at 110 V	A	3	
• at 220 V	А	1	
• at DC-13			
• at 24 V	А	10	
• at 48 V	А	2	
• at 60 V	A	2	
• at 110 V	A	1	
• at 220 V	A	0.3	
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	
at type of coordination 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	
Installation/mounting/dimensions:			
Built in orientation		any	
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail	
Width	mm	90	
Height	mm	114	
Depth	mm	97	

mm	6
mm	0
mm	6
mm	6
mm	6
mm	6
mm	0
mm	6
mm	6
mm	6
mm	6
mm	0
mm	6
mm	6
mm	6
	mm mm mm mm mm mm mm mm mm mm

Design of the electrical connection				
Design of the electrical connection				
for main current circuit		spring-loaded terminals		
 for auxiliary and control current circuit 		spring-loaded terminals		
Type of the connectable conductor cross-section				
for main contacts				
• solid		2x (1 10 mm²)		
• stranded	2x (1 10 mm²)			
finely stranded				
 with conductor end processing 		2x (1 6 mm²)		
 without conductor final cutting 		2x (1 6 mm²)		
for AWG conductors / for main contacts	1x (18 8)			
for auxiliary contacts				
• solid		2x (0.5 2.5 mm²)		
finely stranded				
 with conductor end processing 		2x (0.5 1.5 mm²)		
 without conductor final cutting 		2x (0.5 1.5 mm²)		
 for AWG conductors / for auxiliary contacts 		2x (20 14)		
Certificates/approvals:				
Verification of suitability		CE / UL / CSA / CCC		

General Product Approval		Test Certificates			
(SA) CSA	<u>ROSTEST</u>		Manufacturer		
Shipping Approval					
ABS		GL	Lloyd's Register LRS	PRS	RINA
Shipping Approval	other				
RMRS	other				
UL/CSA ratings					
yielded mechanical po	erformance (hp)				
 for single-phase sq 	uirrel cage motor	S			
• at 110/120 V / ra	ated value		hp	1	
• at 230 V / rated	value		hp	2	
 for three-phase squ 	uirrel cage motors	3			
• at 220/230 V / rated value		hp	3		
• at 460/480 V / ra	ated value		hp	7.5	
• at 575/600 V / rated value		hp	10		
Operating current (FI	A) / for three-ph	ase squirrel cage motors			

Operating current (FLA) / for three-phase squirrel cage motors • at 480 V / rated value

at 600 V / rated value

Contact rating designation / for auxiliary contacts / according to UL

Safety: B10 value / with high demand rate • according to SN 31920 1,000,000 Failure rate (FIT value) / with low demand rate • according to SN 31920 FIT 100 Proportion of dangerous failures • with low demand rate / according to SN 31920 40 % • with high demand rate / according to SN 31920 % 75 T1 value / for proof test interval or service life • according to IEC 61508 а 20 Protection against electrical shock finger-safe

А

А

11

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A600 / Q600

Further information:

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

Industry Mall (Online ordering system)

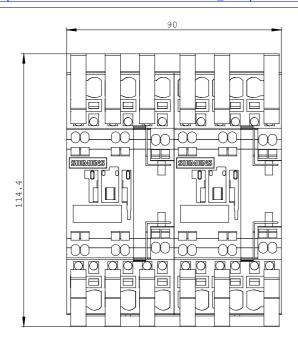
http://www.siemens.com/industrial-controls/mall

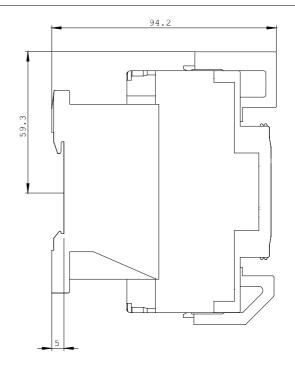
CAx-Online-Generator

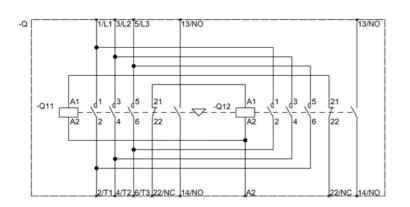
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2324-8XB30-2AG2/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2324-8XB30-2AG2







last change:

Oct 24, 2011