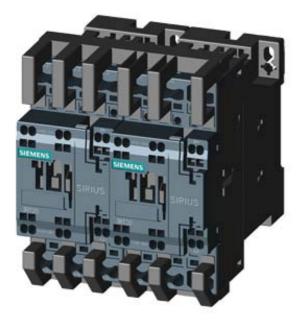
SIEMENS

Product data sheet

3RA2328-8XB30-2BB4



REV. COMB., AC3, 18.5KW/ 400V DC24V 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		9.8g / 5 ms and 5.9g / 10 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / per conductor / typical	W	1.6
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>3RT2028-2BB40</u>
 2 / of the contactor included in the scope of supply 		<u>3RT2028-2BB40</u>
 of the RS applied assembly kit 		<u>3RA2923-2AA2</u>
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	50
• at 60 °C ambient temperature / rated value	А	45
• at AC-2 / at 400 V / rated value	А	38
• at AC-3 / at 400 V / rated value	А	38
• at AC-4 / at 400 V / rated value	А	18.5
• 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	А	35
• at 110 V / rated value	А	35
 with 3 current paths in series / at DC-1 		
• at 24 V / rated value	А	35
• at 110 V / rated value	А	35
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	А	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	18.5
• at AC-3		
• at 400 V / rated value	kW	18.5
• at 500 V / rated value	kW	22
• at 690 V / rated value	kW	18.5
• at AC-4 / at 400 V / rated value	kW	9.5
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		DC
Control supply voltage frequency		
• 1 / rated value	Hz	50

• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
for DC / rated value	V	24
Operating range factor control supply voltage rated value / of the solenoid		
• for DC		0.8 1.1
Pull-in power / of the solenoid / for DC	W	5.9
Holding power / of the solenoid / for DC	W	5.9
Resistive loss / of the magnet coil / for DC		
• typical	W	5.9

Auxiliary circuit:

Product extension / auxiliary switch	Yes
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	А	10		
• at AC-15				
• at 230 V	А	6		
• at 400 V	А	3		
• at DC-12				
• at 48 V	А	6		
• at 60 V	А	6		
• at 110 V	А	3		
• at 220 V	А	1		
• at DC-13				
• at 24 V	А	10		
• at 48 V	А	2		
• at 60 V	А	2		
• at 110 V	А	1		
• at 220 V	А	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: 100 A		
at type of coordination 2 / required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 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		

Distance, to be maintained, to the ranks assembly

Height

Depth

forwards

backwards

mm

mm

mm

mm

114

107

6

0

• upwards	mm	6		
downwards	mm	6		
• sidewards	mm	6		
Distance, to be maintained, to earthed part				
forwards	mm	6		
backwards	mm	0		
• upwards	mm	6		
downwards	mm	6		
• sidewards	mm	6		
Distance, to be maintained, conductive elements				
forwards	mm	6		
backwards	mm	0		
• upwards	mm	6		
downwards	mm	6		
• sidewards	mm	6		
Connections:				
Design of the electrical connection				
for main current circuit		spring-loaded terminals		
 for auxiliary and control current circuit 				
· Tor advinary and control current circuit		spring-loaded terminals		
Type of the connectable conductor cross-section		spring-loaded terminals		
		spring-loaded terminals		
Type of the connectable conductor cross-section		spring-loaded terminals 2x (1 10 mm ²)		
Type of the connectable conductor cross-section • for main contacts				
Type of the connectable conductor cross-section for main contacts solid 		2x (1 10 mm²)		
Type of the connectable conductor cross-section for main contacts solid stranded 		2x (1 10 mm²)		
Type of the connectable conductor cross-section for main contacts solid stranded finely stranded 		2x (1 10 mm²) 2x (1 10 mm²)		
Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded • with conductor end processing		2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²)		
Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded • with conductor end processing • without conductor final cutting		2x (1 10 mm ²) 2x (1 10 mm ²) 2x (1 6 mm ²) 2x (1 6 mm ²)		
Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded • with conductor end processing • without conductor final cutting • for AWG conductors / for main contacts		2x (1 10 mm ²) 2x (1 10 mm ²) 2x (1 6 mm ²) 2x (1 6 mm ²)		

- finely stranded
 with conductor end processing
 without conductor final cutting
 2x (0.5 ... 1.5 mm²)
 2x (0.5 ... 1.5 mm²)
- for AWG conductors / for auxiliary contacts

Certificates/approvals:

Verification of suitability

CE / UL / CSA / CCC

2x (20 ... 14)

General Product An	proval		Test Certific	atos	
General Froduct Ap	General Product Approval		Manufacture		
SP	<u>ROSTEST</u>		Manufacture	<u>_</u>	
Shipping Approval					
ABS		GL	Lloyd's Register	PRS	RINA
Shipping Approval	other				
RMRS	<u>other</u>				
UL/CSA ratings					
yielded mechanical p	erformance (hp)				
 for single-phase so 	quirrel cage motors				
• at 110/120 V / ra	ated value		hp	3	
• at 230 V / rated value		hp	5		
 for three-phase square 	uirrel cage motors				
• at 220/230 V / ra	ated value		hp	10	
• at 460/480 V / ra	ated value		hp	25	
	ated value		hp	25	
• at 575/600 V / ra					
• at 575/600 V / ra	.A) / for three-phase s	quirrel cage motors			
		quirrel cage motors	A	34	

• 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

A600 / Q600

Further information:

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

Industry Mall (Online ordering system)

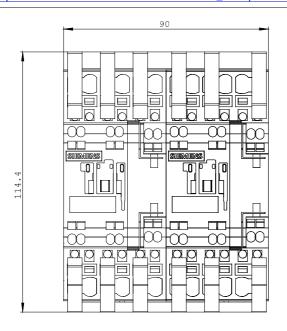
http://www.siemens.com/industrial-controls/mall

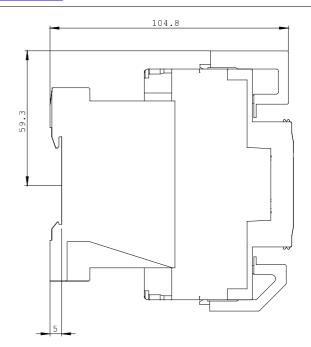
CAx-Online-Generator

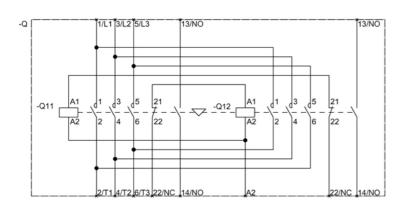
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2328-8XB30-2BB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2328-8XB30-2BB4







last change:

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