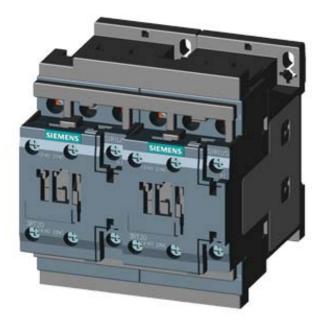
SIEMENS

Product data sheet

3RA2327-8XB30-1AC2



REV. COMB., AC3, 15KW/400V AC24V, 50/60HZ, 3-POLE, SZ S0 SCREW 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	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>3RT2027-1AC20</u>	
 2 / of the contactor included in the scope of supply 	<u>3RT2027-1AC20</u>		
 of the RS applied assembly kit 		3RA2923-2AA1	
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	A	50	
• at 60 °C ambient temperature / rated value	А	45	
• at AC-2 / at 400 V / rated value	А	32	
• at AC-3 / at 400 V / rated value	А	32	
• at AC-4 / at 400 V / rated value	А	15.6	
• with 1 current path / at DC-1			
• at 24 V / rated value	A	35	
• at 110 V / rated value	A	4.5	
• with 2 current paths in series / at DC-1			
• at 24 V / rated value	A	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	A	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	15
• at AC-3		
• at 400 V / rated value	kW	15
• at 500 V / rated value	kW	18.5
• at 690 V / rated value	kW	15
• at AC-4 / at 400 V / rated value	kW	8.2
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	24
• at 60 Hz / for AC / rated value	V	24
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		0.8 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	77
Apparent holding power / of the solenoid / for AC	V·A	9.8
Inductive power factor	-	
with the pull-in power of the coil		0.82

0.27

• with the pull-in power of the coil

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
Height	mm	101
Depth	mm	97

Distance, to be maintained, to the ranks assembly		
forwards	mm	6
backwards	mm	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	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Type of the connectable conductor cross-section	
• for main contacts	
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
• stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
finely stranded	
 with conductor 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 	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
finely stranded	
 with conductor 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)

Verification of suitability

CE / UL / CSA / CCC

General Product Approval		Test Certificates				
	ROSTEST		Manufacturer			
Shipping Approval						
ABS		GL	Lloyd's Register LRS		RS	RINA
Shipping Approval	other					
RMRS	other					
UL/CSA ratings						
yielded mechanical p	erformance (hp)					
 for single-phase sq 	uirrel cage motors					
• at 110/120 V / ra	ated value		hp	2		
• at 230 V / rated value			hp	5		
 for three-phase squirrel cage motors 						
• at 220/230 V / rated value			hp	10		
• at 460/480 V / rated value		hp	20			
• at 575/600 V / ra	ated value		hp	25		
Operating current (FL	Operating current (FLA) / for three-phase squirrel cage motors					
• at 480 V / rated val	• at 480 V / rated value		А	27		
• at 600 V / rated value			А	27		

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

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

Industry Mall (Online ordering system)

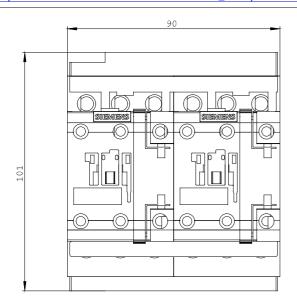
http://www.siemens.com/industrial-controls/mall

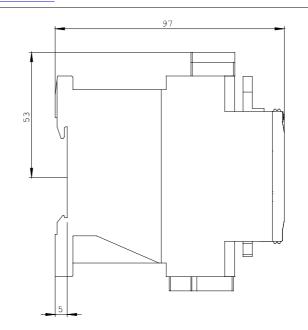
CAx-Online-Generator

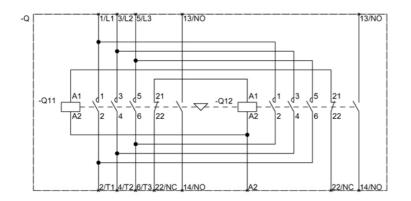
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2327-8XB30-1AC2/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2327-8XB30-1AC2







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