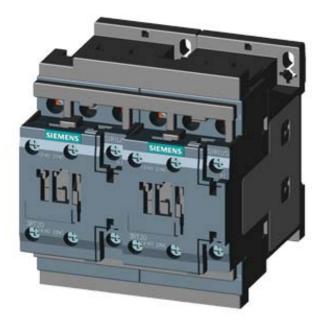
SIEMENS

Product data sheet

3RA2328-8XB30-1AC2



REV. COMB., AC3, 18.5KW/ 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		SO		
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 		3RT2028-1AC20		
 2 / of the contactor included in the scope of supply 	<u>3RT2028-1AC20</u>			
 of the RS applied assembly kit 		<u>3RA2923-2AA1</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		38		
• at AC-4 / at 400 V / rated value		18.5		
• with 1 current path / at DC-1				
• at 24 V / rated value	А	35		
• at 110 V / rated value		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	_	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		
with the pull-in power of the coil		0.07		
		0.27		

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		
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	(Anarola	PRS	RINA
Shipping Approval	other					
RMRS	other					
UL/CSA ratings						
yielded mechanical p	erformance (hp)					
 for single-phase squirrel cage motors 						
• at 110/120 V / ra	ated value		hp	3		
• 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	25			
• at 575/600 V / rated 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			34		
• at 600 V / rated val	• at 600 V / rated value			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

Further information:

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

Industry Mall (Online ordering system)

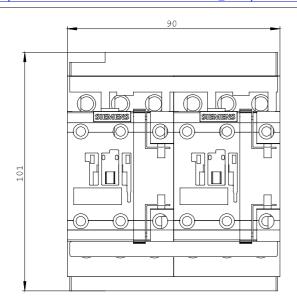
http://www.siemens.com/industrial-controls/mall

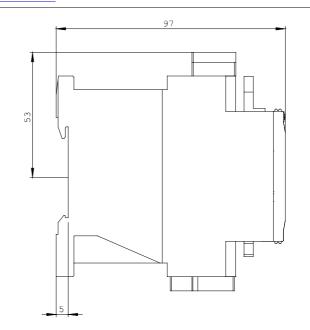
CAx-Online-Generator

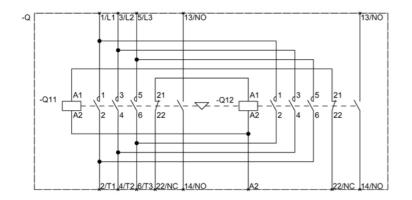
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2328-8XB30-1AC2/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2328-8XB30-1AC2







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