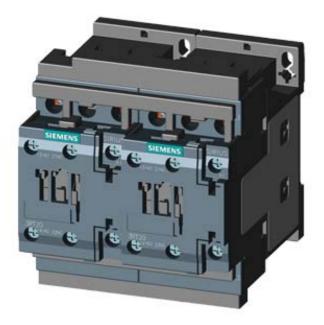
SIEMENS

Product data sheet

3RA2325-8XB30-1AP6



REV. COMB.,AC3, 7.5KW/400V AC220V 50HZ/240V 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	0.9
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>3RT2025-1AL20</u>
• 2 / of the contactor included in the scope of supply		<u>3RT2025-1AL20</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	А	40
• at 60 °C ambient temperature / rated value	А	35
• at AC-2 / at 400 V / rated value	А	17
• at AC-3 / at 400 V / rated value	А	17
• at AC-4 / at 400 V / rated value	А	7.7
• 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 					
with 2 current paths in sches / at DO 3 / at DO 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	7.5			
• at AC-3					
• at 400 V / rated value	kW	7.5			
• at 500 V / rated value	kW	10			
• at 690 V / rated value	kW	11			
• at AC-4 / at 400 V / rated value	kW	3.5			
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			
 1 / rated value 2 / rated value 	Hz Hz	50 60			
• 2 / rated value					
• 2 / rated value Control supply voltage / 1	Hz	60			
• 2 / rated value Control supply voltage / 1 • at 50 Hz / for AC / rated value	Hz V	60 220			
• 2 / rated value Control supply voltage / 1 • at 50 Hz / for AC / rated value • at 60 Hz / for AC / rated value Operating range factor control supply voltage rated value / of	Hz V	60 220			
• 2 / rated value Control supply voltage / 1 • at 50 Hz / for AC / rated value • at 60 Hz / for AC / rated value Operating range factor control supply voltage rated value / of the magnet coil	Hz V	60 220 240			
• 2 / rated value Control supply voltage / 1 • at 50 Hz / for AC / rated value • at 60 Hz / for AC / rated value Operating range factor control supply voltage rated value / of the magnet coil • at 50 Hz / for AC	Hz V	60 220 240 0.8 1.1			
• 2 / rated value Control supply voltage / 1 • at 50 Hz / for AC / rated value • at 60 Hz / for AC / rated value Operating range factor control supply voltage rated value / of the magnet coil • at 50 Hz / for AC • at 60 Hz / for AC	Hz V V	60 220 240 0.8 1.1 0.8 1.1			
 2 / rated value Control supply voltage / 1 at 50 Hz / for AC / rated value at 60 Hz / for AC / rated value Operating range factor control supply voltage rated value / of the magnet coil at 50 Hz / for AC at 50 Hz / for AC at 60 Hz / for AC Apparent pull-in power / of the solenoid / for AC 	Hz V V	60 220 240 0.8 1.1 0.8 1.1 65			
 2 / rated value Control supply voltage / 1 at 50 Hz / for AC / rated value at 60 Hz / for AC / rated value Operating range factor control supply voltage rated value / of the magnet coil at 50 Hz / for AC at 50 Hz / for AC at 60 Hz / for AC Apparent pull-in power / of the solenoid / for AC Apparent holding power / of the solenoid / for AC 	Hz V V	60 220 240 0.8 1.1 0.8 1.1 65			
 2 / rated value Control supply voltage / 1 at 50 Hz / for AC / rated value at 60 Hz / for AC / rated value Operating range factor control supply voltage rated value / of the magnet coil at 50 Hz / for AC at 60 Hz / for AC Apparent pull-in power / of the solenoid / for AC Apparent holding power / of the solenoid / for AC Inductive power factor 	Hz V V	60 220 240 0.8 1.1 0.8 1.1 65 8.5			

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	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	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: 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	101			
Depth	mm	97			

Distance, to be maintained, to the ranks assemblymm6• forwardsmm0• backwardsmm6• upwardsmm6• downwardsmm6• sidewardsmm6Distance, to be maintained, to earthed partmm6• forwardsmm6• backwardsmm6• forwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6		_	
• backwardsnmm0• upwardsmm6• downwardsmm6• sidewardsmm6• backwardsmm6• forwardsmm6• backwardsmm6• backwardsmm6• upwardsmm6• downwardsmm6• sidewardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• forwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• upwardsmm6	Distance, to be maintained, to the ranks assembly		
• upwards6• downwardsmm6• sidewardsmm6Distance, to be maintained, to earthed partmm6• forwardsmm61• backwardsmm61• backwardsmm61• downwardsmm61• sidewardsmm61• backwardsmm61• backwardsmm61• backwardsmm61• forwardsmm61• backwardsmm61• backwardsmm61• backwardsmm61• backwardsmm61• upwardsmm61• upwardsmm61	• forwards	mm	6
• downwardsmm6• sidewardsmm6Distance, to be maintained, to earthed partmm6• forwardsmm6• backwardsmm0• upwardsmm6• downwardsmm6• sidewardsmm6• backwardsmm6• forwardsmm6• forwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• upwardsmm6	backwards	mm	0
• sidewardsnmm6Distance, to be maintained, to earthed part• forwardsnmm6• backwardsnmm0• upwardsnmm6• downwardsnmm6• sidewardsnmm6• sidewardsnmm6• forwardsnmm6• forwardsnmm6• forwardsnmm6• backwardsnmm6• backwardsnmm6• upwardsnmm6• upwardsnmm6	• upwards	mm	6
Distance, to be maintained, to earthed partImage: Comparison of the sector	downwards	mm	6
• forwardsnmm6• backwardsnmm0• upwardsnmm6• downwardsnmm6• sidewardsnmm6• backwardsnmm6• forwardsnmm6• horwardsnmm6• horwardsnmm6• horwardsnmm6• horwardsnmm6• horwardsnmm6• horwardsnmm6• horwardsnmm6	• sidewards	mm	6
• backwardsnmm0• upwardsnmm6• downwardsnmm6• sidewardsnmm6• backwardsrmm6• forwardsrmm6• backwardsnmm6• upwardsnmm6• upwardsnmm6	Distance, to be maintained, to earthed part		
• upwardsmm6• downwardsmm6• sidewardsmm6• backwardsmm6• forwardsmm6• backwardsmm6• upwardsmm6• upwardsmm6	forwards	mm	6
• downwardsnmm6• sidewardsnmm6Distance, to be maintained, conductive elements• forwardsnmm6• backwardsnmm0• upwardsnmm6	backwards	mm	0
• sidewardsmm6Distance, to be maintained, conductive elements• forwardsmm6• backwardsmm0• upwardsmm6	• upwards	mm	6
Distance, to be maintained, conductive elements mm 6 • forwards mm 0 • backwards mm 0 • upwards mm 6	downwards	mm	6
• forwardsmm6• backwardsmm0• upwardsmm6	• sidewards	mm	6
• backwardsmm0• upwardsmm6	Distance, to be maintained, conductive elements		
• upwards mm 6	• forwards	mm	6
	backwards	mm	0
• downwards mm 6	• upwards	mm	6
	downwards	mm	6
• sidewards 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	Declaration of Conformity	Test Certificates			
PG	CE	Special Test Certificate			
GOST	EG-Konf.				
Shipping Approval					
ABS	DNV DNV	GL	Lloyd's Register	PRS	RINA
Shipping Approval					
RMRS UL/CSA ratings					
yielded mechanical p	erformance (hp)				
• for single-phase so					
• at 110/120 V / r			hp	1	
• at 230 V / rated			hp	3	
	for three-phase squirrel cage motors			- -	
• at 220/230 V / r			hp	5	
• at 460/480 V / r			hp	10	
• at 575/600 V / r			hp	15	
Operating current (FL		squirrel cage motors			
• at 480 V / rated va			А	14	
• at 600 V / rated va	lue		А	17	
Contact rating designation / for auxiliary contacts / according to UL				A600 / Q600	
Safety:					
B10 value / with high	demand rate				
 according to SN 3⁻ 	1920			1,000,000	
Failure rate (FIT value	e) / with low demand	rate			
according to SN 31920			FIT	100	
Proportion of danger	ous failures				
• with low demand r	ate / according to SN 3	31920	%	40	

Further information:

• according to IEC 61508

Protection against electrical shock

• with high demand rate / according to SN 31920

T1 value / for proof test interval or service life

%

а

75

20

finger-safe

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

Industry Mall (Online ordering system)

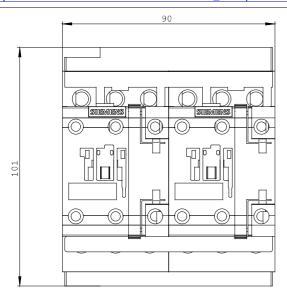
http://www.siemens.com/industrial-controls/mall

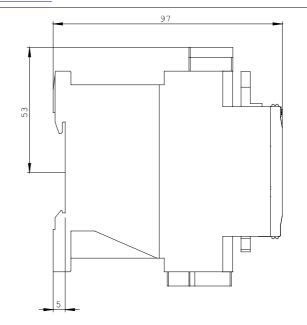
CAx-Online-Generator

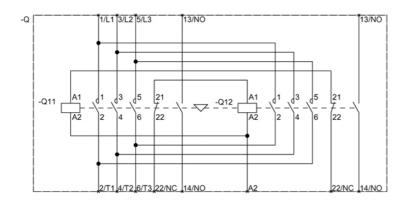
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2325-8XB30-1AP6/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2325-8XB30-1AP6







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