SIEMENS

Product data sheet

3RA2423-8XH32-2BB4

STAR-DELTA COMB. WITH ASI AC3, 11KW/400V DC24V, 3-POLE SZ S0, SPRING-LOADED TERMINAL ELECTR. AND MECH. INTERLOCK 3NO+3NC INTEGR.



General technical data:			
Product brand name		SIRIUS	
product designation		star-delta (wye-delta) contactor assembly 3RA24	
Product function		wye-delta motor start-up	
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	0.4	
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		
 of the function module for communication included in the scope of supply 		3RA2712-2CA00
 1 / of the contactor included in the scope of supply 		3RT2024-2BB40-0CC0
 2 / of the contactor included in the scope of supply 		<u>3RT2024-2BB40</u>
 3 / of the contactor included in the scope of supply 		<u>3RT2024-2BB40</u>
 of the RS applied assembly kit 		3RA2923-2BB2
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		Yes
control circuit interface with IO link	_	No
Protocol / will be supported / AS interface protocol		Yes
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	25
• at AC-3 / at 400 V / rated value	А	17
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 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	11
• at AC-3		
• at 400 V / rated value	kW	11
• at 500 V / rated value	kW	11
• at 690 V / rated value	kW	19
• at AC-4 / at 400 V / rated value	kW	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

Design of activation		conventional	
Design of the surge suppressor		with varistor	
Type of voltage / of the controlled supply voltage		DC	
Control supply voltage frequency			
• 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		No	
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles	

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Number of NC contacts / for auxiliary contacts		
instantaneous switching		3
lagging switching		0
Number of NO contacts / for auxiliary contacts		
instantaneous switching		3
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: 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	135
Height	mm	114
Depth	mm	181
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:					
Connections.					
Design of the electrical connection	_				
	_	spring-loaded terminals			
Design of the electrical connection	_	spring-loaded terminals spring-loaded terminals			
Design of the electrical connection • for main current circuit					
Design of the electrical connection for main current circuit for auxiliary and control current circuit 					
Design of the electrical connection for main current circuit for auxiliary and control current circuit Type of the connectable conductor cross-section					
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section • for main contacts		spring-loaded terminals			
Design of the electrical connection for main current circuit for auxiliary and control current circuit Type of the connectable conductor cross-section for main contacts solid 		spring-loaded terminals 2x (1 10 mm ²)			
Design of the electrical connection for main current circuit for auxiliary and control current circuit Type of the connectable conductor cross-section for main contacts solid stranded 		spring-loaded terminals 2x (1 10 mm ²)			
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded		spring-loaded terminals 2x (1 10 mm ²) 2x (1 10 mm ²)			
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded • with conductor end processing		spring-loaded terminals 2x (1 10 mm ²) 2x (1 10 mm ²) 2x (1 6 mm ²)			
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded • with conductor end processing • without conductor final cutting		spring-loaded terminals 2x (1 10 mm ²) 2x (1 10 mm ²) 2x (1 6 mm ²) 2x (1 6 mm ²)			
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit 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		spring-loaded terminals 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

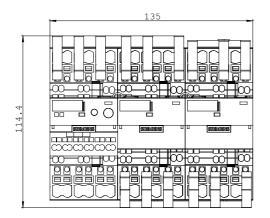
CE / UL / CSA / CCC

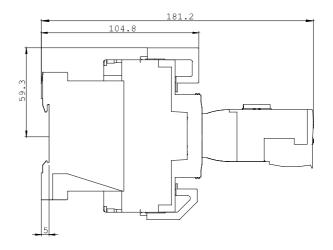
2x (20 ... 14)

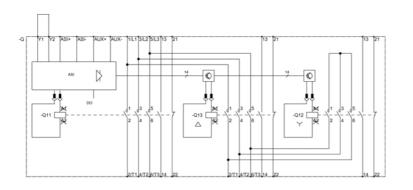
General Product Approval	Test Certificates				
ROSTEST	Manufacturer				
Shipping Approval					
ABS		GL	Lloyd's Kegister Lrs	PRS	RINA
Shipping Approval	other				
RMRS	other				

UL/CSA ratings			
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600	
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	
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/3RA2423-8XH32-2BB4/all			

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2423-8XH32-2BB4







last change:

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