SIEMENS

Product data sheet

3RA2423-8XF32-2AL2

STAR-DELTA COMB. AC3, 11KW/400V AC230V, 50/60HZ, 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 2,000 m Ambient temperature during transport °C -55 ... 80 • during storage °C -55 ... 80 °C • during operating -25 ... 60 12.5g / 5 ms and 7.8g / 10 ms **Resistance against shock** 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 Κ to IEC 750 • according to DIN EN 61346-2 Q

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• of the RS applied assembly kitImage: Signal S	 2 / of the contactor included in the scope of supply 		<u>3RT2024-2AL20</u>
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Main circuit:Number of poles / for main current circuit3Number of NC contacts / for main contacts0Number of NC contacts / for main contacts3Operating voltage / at AC-3 / rated value / maximumV690Operating currentv690• at AC-1 / at 400 VA40• at 40 °C ambient temperature / rated valueA40• at 60 °C ambient temperature / rated valueA35• at AC-2 / at 400 V / rated valueA25• at AC-3 / at 400 V / rated valueA17• with 1 current path / at DC-1	control circuit interface with IO link		No
Number of poles / for main current circuit3Number of NC contacts / for main contacts0Number of NC contacts / for main contacts3Operating voltage / at AC-3 / rated value / maximumV690Operating current	Protocol / will be supported / AS interface protocol	_	No
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Number of NO contacts / for main contacts3Operating voltage / at AC-3 / rated value / maximumV690Operating current • at AC-1 / at 400 VA40• at AC 0 °C ambient temperature / rated valueA40• at 40 °C ambient temperature / rated valueA35• at 60 °C ambient temperature / rated valueA25• at AC-2 / at 400 V / rated valueA17• at AC 3/ at 400 V / rated valueA35• at AC 3/ at 400 V / rated valueA35• at 24 V / rated valueA35• with 1 current path / at DC-1 • at 24 V / rated valueA35• with 2 current paths in series / at DC-1 • at 24 V / rated valueA35• with 3 current paths in series / at DC-1 • at 24 V / rated valueA35• with 3 current paths in series / at DC-1 • at 24 V / rated valueA35• with 3 current paths in series / at DC-1 • at 24 V / rated valueA35• with 3 current paths in series / at DC-1 • at 24 V / rated valueA35• with 3 current paths in series / at DC-1 • at 24 V / rated valueA35• with 3 current paths in series / at DC-1 • at 24 V / rated valueA35• with 3 current paths in series / at DC-1 • at 24 V / rated valueA35• with 3 current paths in series / at DC-1 • at 24 V / rated valueA35• with 1 current path / at DC-3 at DC-5A35	Number of poles / for main current circuit		3
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Operating current• at AC-1 / at 400 V• at AC or C ambient temperature / rated valueA• at 40 °C ambient temperature / rated valueA• at 60 °C ambient temperature / rated valueA• at 60 °C ambient temperature / rated valueA• at AC-2 / at 400 V / rated valueA• at AC-3 / at 400 V / rated valueA• at AC-3 / at 400 V / rated valueA• at AC-3 / at 400 V / rated valueA• at AC-3 / at 400 V / rated valueA• at AC-3 / at 400 V / rated valueA• at 24 V / rated valueA• at 24 V / rated valueA• with 2 current paths in series / at DC-1	Number of NO contacts / for main contacts	_	3
 at AC-1 / at 400 V at AC-1 / at 400 V at 40 °C ambient temperature / rated value A 40 at 60 °C ambient temperature / rated value A 35 at AC-2 / at 400 V / rated value A 25 at AC-3 / at 400 V / rated value A 17 with 1 current path / at DC-1 at 24 V / rated value A 35 at 110 V / rated value A 35 at 110 V / rated value A 35 with 3 current paths in series / at DC-1 at 24 V / rated value A 35 at 110 V / rated value A 35 with 3 current paths in series / at DC-1 at 24 V / rated value A 35 with 3 current paths in series / at DC-1 at 24 V / rated value A 35 with 3 current paths in series / at DC-1 at 24 V / rated value A 35 with 3 current path in series / at DC-1 at 110 V / rated value A 35 with 1 current path / at DC-3 / at DC-5 	Operating voltage / at AC-3 / rated value / maximum	V	690
 at 40 °C ambient temperature / rated value at 60 °C ambient temperature / rated value at 60 °C ambient temperature / rated value at 60 °C ambient temperature / rated value at AC-2 / at 400 V / rated value A 25 at AC-3 / at 400 V / rated value A 17 with 1 current path / at DC-1 at 24 V / rated value A 35 at 110 V / rated value A 35 with 2 current paths in series / at DC-1 at 24 V / rated value A 35 with 3 current paths in series / at DC-1 at 24 V / rated value A 35 with 3 current paths in series / at DC-1 at 24 V / rated value A 35 with 3 current paths in series / at DC-1 at 24 V / rated value A 35 with 3 current paths in series / at DC-1 at 24 V / rated value A 35 with 1 current path in Series / at DC-1 at 110 V / rated value A 35 with 3 current paths in Series / at DC-1 with 3 current paths in Series / at DC-1 with 3 current paths in Series / at DC-1 with 3 current paths in Series / at DC-1 with 3 current paths in Series / at DC-1 with 3 current paths in Series / at DC-1 with 3 current paths in Series / at DC-1 with 3 current paths in Series / at DC-1 with 3 current paths in Series / at DC-1 with 4 current path / at DC-3 / at DC-5 	Operating current		
• at 60 °C ambient temperature / rated valueA35• at AC-2 / at 400 V / rated valueA25• at AC-3 / at 400 V / rated valueA17• with 1 current path / at DC-1• at 24 V / rated valueA35• at 110 V / rated valueA4.5• with 2 current paths in series / at DC-1• at 24 V / rated valueA35• at 110 V / rated valueA35• at 110 V / rated valueA35• at 24 V / rated valueA35• at 110 V / rated valueA35• with 3 current paths in series / at DC-1-• at 24 V / rated valueA35• with 3 current paths in series / at DC-1-• at 110 V / rated valueA35• with 1 current path / at DC-3 / at DC-5	• at AC-1 / at 400 V		
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• at AC-3 / at 400 V / rated valueA17• with 1 current path / at DC-1A35• at 24 V / rated valueA4.5• at 110 V / rated valueA35• with 2 current paths in series / at DC-1A35• at 24 V / rated valueA35• at 110 V / rated valueA35• with 3 current paths in series / at DC-1A35• at 24 V / rated valueA35• at 110 V / rated valueA35• at 110 V / rated valueA35• at 110 V / rated valueA35• with 1 current path / at DC-3 / at DC-5A35	• at 60 °C ambient temperature / rated value	А	35
 with 1 current path / at DC-1 at 24 V / rated value at 110 V / rated value A 35 at 110 V / rated value A 4.5 at 24 V / rated value A 35 at 24 V / rated value A 35 at 110 V / rated value A 35 A 35 at 110 V / rated value A 35 A 35<td>• at AC-2 / at 400 V / rated value</td><td>А</td><td>25</td>	• at AC-2 / at 400 V / rated value	А	25
• at 24 V / rated valueA35• at 110 V / rated valueA4.5• with 2 current paths in series / at DC-1A35• at 24 V / rated valueA35• at 110 V / rated valueA35• with 3 current paths in series / at DC-1A35• at 24 V / rated valueA35• at 24 V / rated valueA35• with 3 current paths in series / at DC-1A35• at 110 V / rated valueA35• at 110 V / rated valueA35• with 1 current path / at DC-3 / at DC-5A35	• at AC-3 / at 400 V / rated value	А	17
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• at 24 V / rated valueA35• at 110 V / rated valueA35• with 3 current paths in series / at DC-1• at 24 V / rated valueA35• at 110 V / rated valueA35• at 110 V / rated valueA35• with 1 current path / at DC-3 / at DC-5	• at 110 V / rated value	А	4.5
• at 110 V / rated valueA35• with 3 current paths in series / at DC-1A35• at 24 V / rated valueA35• at 110 V / rated valueA35• with 1 current path / at DC-3 / at DC-5K46	• with 2 current paths in series / at DC-1		
 with 3 current paths in series / at DC-1 at 24 V / rated value A 35 at 110 V / rated value A 35 with 1 current path / at DC-3 / at DC-5 	• at 24 V / rated value	А	35
• at 24 V / rated valueA35• at 110 V / rated valueA35• with 1 current path / at DC-3 / at DC-5	• at 110 V / rated value	А	35
• at 110 V / rated value A 35 • with 1 current path / at DC-3 / at DC-5	• with 3 current paths in series / at DC-1		
• with 1 current path / at DC-3 / at DC-5	• at 24 V / rated value	А	35
	• at 110 V / rated value	А	35
• at 24 V / rated value A 20	• 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	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

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	230
• at 60 Hz / for AC / rated value	V	230
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	65
Apparent holding power / of the solenoid / for AC	V·A	8.5
Inductive power factor		
with the pull-in power of the coil		0.82
with the pull-in power of the coil		0.25

Auxiliary circuit:

Product extension / auxiliary switch		No
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
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	171		

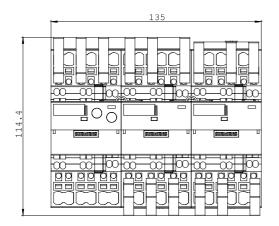
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Distance, to be maintained, to the ranks assembly		
• forwards	mm	6
backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, to earthed part		
• forwards	mm	6
backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, conductive elements		
• forwards	mm	6
backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6

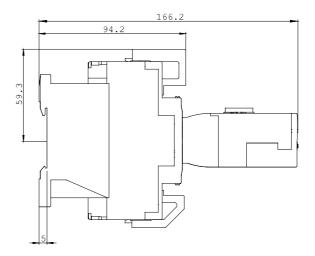
Design of the electrical connection	
for main current circuit	spring-loaded terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Type of the connectable conductor cross-section	
for main contacts	
• solid	2x (1 10 mm²)
• stranded	2x (1 10 mm²)
finely stranded	
 with conductor end processing 	2x (1 6 mm²)
 without conductor final cutting 	2x (1 6 mm²)
for AWG conductors / for main contacts	1x (18 8)
for auxiliary contacts	
• solid	2x (0.5 2.5 mm²)
finely stranded	
 with conductor end processing 	2x (0.5 1.5 mm²)
 without conductor final cutting 	2x (0.5 1.5 mm²)
 for AWG conductors / for auxiliary contacts 	2x (20 14)
Certificates/approvals:	
Verification of suitability	CE / UL / CSA / CCC

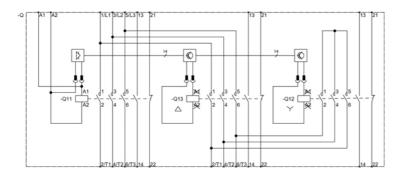
General Product Approval	Test Certificates				
ROSTEST	Manufacturer				
Shipping Approval					
ABS		GL	Lloyd's Kegister Lrs	PRS	RINA
Shipping Approval	other				
RMRS	other				

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/3RA2423-8XF32-2AL2/all			

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2423-8XF32-2AL2







last change:

Oct 24, 2011