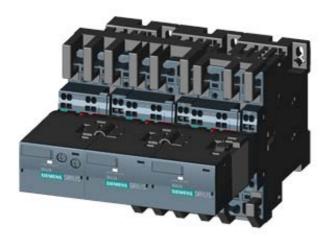
SIEMENS

Product data sheet

3RA2425-8XF32-2BB4

STAR-DELTA COMB. AC3, 15/18.5KW/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 2,000 m Ambient temperature during transport °C -55 ... 80 • during storage °C -55 ... 80 °C • during operating -25 ... 60 9.8g / 5 ms and 5.9g / 10 ms **Resistance against shock** 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 Κ to IEC 750 • according to DIN EN 61346-2 Q

• of the function module for wyse-delta circuits included in the scope of supply 3R.2216-0EW20 • of the function module for for wyse-delta circuits included in the scope of supply 3R.2216-0EW20 • 1 / of the contactor included in the scope of supply 3R.2216-0EW20 • 2 / of the contactor included in the scope of supply 3R.22026-28B40 • 3 / of the contactor included in the scope of supply 3R.22026-28B40 • of the RS applied assembly kit 3R.22024-28B40 • 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 / typical 10,000,000 • of the contactor / typical 0,000,000 • of the contactor / typical No • of the contactor / typical No • other communication No • bus-communication No • bus-communication No • bus-communication 3 • bus-communication 9 • at ncircuit 3 Number of poles / for main current circuit 3 Number of NC contacts / for main current circuit 3 • at AC-3 / at 400 V
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 at AC-2 / at 400 V / rated value at AC-3 / at 400 V / rated value with 1 current path / at DC-1
AC-3 / at 400 V / rated value A A I7 with 1 current path / at DC-1
• 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 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 1 current path / at DC-3 / at DC-5
• at 24 V / rated value A 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	18.5
• at 500 V / rated value	kW	15
• at 690 V / rated value	kW	19
• 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

Design of activation		conventional
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		
Number of NC contacts / for auxiliary contacts				

_	3 0 3
_	
	3
	3
	0
А	10
А	6
А	3
А	6
А	6
А	3
А	1
А	10
А	2
А	2
А	1
А	0.3
	A A A A A A A A A A

 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:		

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)

Verification of suitability

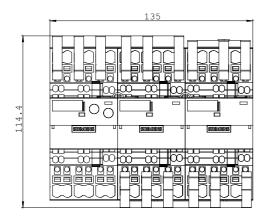
CE / UL / CSA / CCC

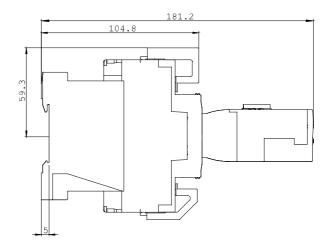
General Product Approval	Test Certificates				
ROSTEST	Manufacturer				
Shipping Approval					
ABS		GL	Lloyd's Kegister Lrs	PRS	RINA
Shipping Approval	other				
RMRS	other				

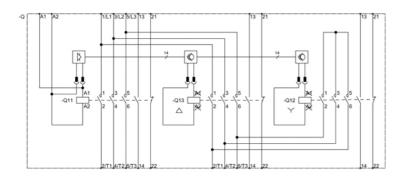
UL/CSA ratings			
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600	
Safety:			
B10 value / with high demand rate			
according to SN 31920		1,000,000	
Failure rate (FIT value) / with low demand rate			
according to SN 31920	FIT	100	
Proportion of dangerous failures			
• 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			

http://support.automation.siemens.com/WW/view/en/3RA2425-8XF32-2BB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2425-8XF32-2BB4







last change:

Oct 24, 2011