## SIEMENS

## Product data sheet

## 3RA2426-8XE32-1BB4

STAR-DELTA COMB. WITH I/O-LINK AC3, 22KW/400V DC24V, 3-POLE SZ S0, SCREW 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	1.6	
Item designation			
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		К	
according to DIN EN 61346-2		Q	

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Manufacturer article number		
<ul> <li>of the function module for communication included in the scope of supply</li> </ul>		3RA2711-1CA00
<ul> <li>1 / of the contactor included in the scope of supply</li> </ul>		3RT2027-1BB40-0CC0
<ul> <li>2 / of the contactor included in the scope of supply</li> </ul>		<u>3RT2027-1BB40</u>
• 3 / of the contactor included in the scope of supply		<u>3RT2026-1BB40</u>
<ul> <li>of the RS applied assembly kit</li> </ul>		<u>3RA2923-2BB1</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		Yes
control circuit interface with IO link		Yes
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	40
• 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	A	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

Design of the surge suppressor		with varistor
Design of activation		conventional
Control circuit:		
• at AC-4 / according to IEC 60947-6-2 / maximum	1/h	300
• at AC-3 / 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-1 / according to IEC 60947-6-2 / maximum	1/h	1,000
Frequency of operation		
Off-load operating frequency	1/h	15
• at AC-4 / at 400 V / rated value	kW	4.4
• at 690 V / rated value	kW	22
• at 500 V / rated value	kW	18.5
• at 400 V / rated value	kW	22
• at AC-3		
• at AC-2 / at 400 V / rated value	kW	18.5
Service power		
• at 110 V / rated value	А	35
• at 24 V / rated value	А	35
• with 3 current paths in series / at DC-3 / at DC-5		
• at 110 V / rated value	А	15
• at 24 V / rated value	А	35
• with 2 current paths in series / at DC-3 / at DC-5		
• at 110 V / rated value	А	2.5

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

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				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
<ul> <li>with type of assignment 1 / required</li> </ul>		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	135		
Height	mm	101		
Depth	mm	181		
Distance, to be maintained, to the ranks assembly				

backwards

6

0

mm

mm

• 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	• stranded 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )			
finely stranded				
with conductor end processing		2x (1 2.5 mm2), 2x (2.5 6 mm2), 1x 10 mm2		
<ul> <li>for AWG conductors / for main contacts</li> </ul>		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)		
<ul> <li>for AWG conductors / for auxiliary contacts</li> </ul>		2x (20 16), 2x (18 14)		

## Certificates/approvals:

Verification of suitability

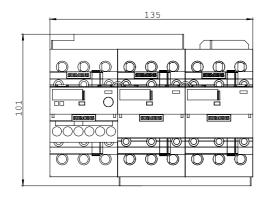
CE / UL / CSA / CCC

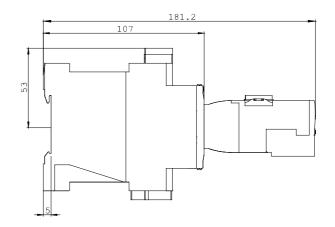
General Product Approval	Test Certificates				
ROSTEST	Manufacturer				
Shipping Approval					
ABS		GL	Lloyd's Kegister Lrs	PRS	RINA
Shipping Approval	other				
RMRS	other				

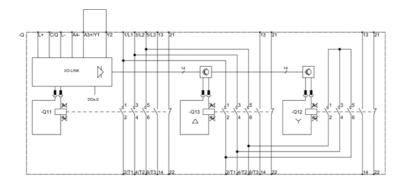
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600	
B10 value / with high demand rate			
according to SN 31920		1,000,000	
Failure rate (FIT value) / with low demand rate	_		
according to SN 31920	FIT	100	
Proportion of dangerous failures			
• with low demand rate / according 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/3RA2426-8XE32-1BB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RA2426-8XE32-1BB4







last change:

Oct 17, 2011