SIEMENS

Product data sheet

3RA2423-8XE32-2BB4

STAR-DELTA COMB. WITH I/O-LINK 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		SO
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 		<u>3RA2711-2CA00</u>
• 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 		<u>3RA2923-2BB2</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	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 		
•		

	conventional
1/h	300
1/h	1,000
1/h	1,000
1/h	1,000
1/h	15
kW	2
kW	19
kW	11
kW	11
kW	11
А	35
А	35
А	15
А	35
А	2.5
	A

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

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:		
Design of the electrical connection		
for main current circuit		spring-loaded terminals
 for auxiliary and control current circuit 		
· Tor advinary and control current circuit		spring-loaded terminals
Type of the connectable conductor cross-section		spring-loaded terminals
		spring-loaded terminals
Type of the connectable conductor cross-section		spring-loaded terminals 2x (1 10 mm ²)
Type of the connectable conductor cross-section • for main contacts		
Type of the connectable conductor cross-section for main contacts solid 		2x (1 10 mm²)
Type of the connectable conductor cross-section for main contacts solid stranded 		2x (1 10 mm²)
Type of the connectable conductor cross-section for main contacts solid stranded finely stranded 		2x (1 10 mm²) 2x (1 10 mm²)
Type of the connectable conductor cross-section for main contacts solid stranded finely stranded with conductor end processing 		2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²)
Type of the connectable conductor cross-section • for main contacts • solid • stranded • finely stranded • with conductor end processing • without conductor final cutting		2x (1 10 mm ²) 2x (1 10 mm ²) 2x (1 6 mm ²) 2x (1 6 mm ²)
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		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

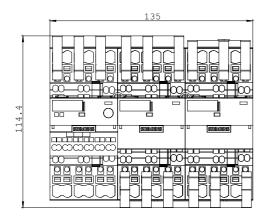
2x (20 ... 14)

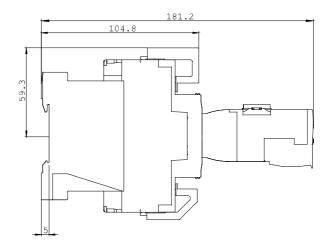
General Product Approval	Test Certificates				
ROSTEST	Manufacturer				
Shipping Approval					
ABS		GL	Lloyd's Kegister Lrs	PRS	RINA
Shipping Approval	other				
RMRS	other				

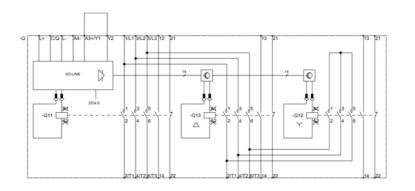
UL/CSA ratings		
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600
Safety:		
B10 value / with high demand rate		
according to SN 31920		1,000,000
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	100
Proportion of dangerous failures		
• with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

http://support.automation.siemens.com/WW/view/en/3RA2423-8XE32-2BB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2423-8XE32-2BB4







last change:

Oct 24, 2011