STAR-DELTA COMB. WITH ASI 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		
 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		3RA2712-1CA00
of supply		
• 1 / of the contactor included in the scope of supply		3RT2027-1BB40-0CC0
• 2 / of the contactor included in the scope of supply		3RT2027-1BB40
• 3 / of the contactor included in the scope of supply		3RT2026-1BB40
of the RS applied assembly kit		3RA2923-2BB1
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	Α	40
• at 60 °C ambient temperature / rated value	Α	35
• at AC-2 / at 400 V / rated value	Α	40
• at AC-3 / at 400 V / rated value	Α	17
• with 1 current path / at DC-1		
• at 24 V / rated value	Α	35
at 110 V / rated value	Α	4.5
• with 2 current paths in series / at DC-1		
at 24 V / rated value	Α	35
at 110 V / rated value	Α	35
• with 3 current paths in series / at DC-1		
at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
• with 1 current path / at DC-3 / at DC-5		
at 24 V / rated value	Α	20

• at 110 V / rated value	Α	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	15
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
Service power		
• at AC-2 / at 400 V / rated value	kW	18.5
• at AC-3		
• at 400 V / rated value	kW	22
• at 500 V / rated value	kW	18.5
• at 690 V / rated value	kW	22
• at AC-4 / at 400 V / rated value	kW	4.4
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 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	Α	10	
• at AC-15			
• at 230 V	Α	6	
• at 400 V	Α	3	
• at DC-12			
• at 48 V	Α	6	
• at 60 V	Α	6	
• at 110 V	Α	3	
• at 220 V	Α	1	
• at DC-13			
• at 24 V	Α	10	
• at 48 V	Α	2	
• at 60 V	Α	2	
• at 110 V	А	1	
• at 220 V	А	0.3	

Snort-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: 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		
• 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	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	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
• finely stranded		
 with conductor end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
• for AWG conductors / for main contacts	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)	
 for AWG conductors / for auxiliary contacts 	2x (20 16), 2x (18 14)	

Certificates/approvals:	
Verification of suitability	CE / UL / CSA / CCC

General Product Approval **Test Certificates**

ROSTEST

Manufacturer

Shipping Approval













Shipping Approval

other



other

	$\Gamma S \Lambda$	rating	10
UL	COL	Taume	<u></u>

Contact rating designation / for auxiliary contacts / according to

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 20 а Protection against electrical shock finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

 $\underline{\text{http://www.siemens.com/industrial-controls/catalogs}}$

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

CAx-Online-Generator

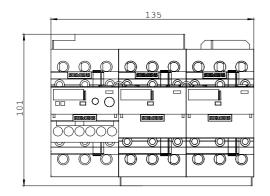
http://www.siemens.com/cax

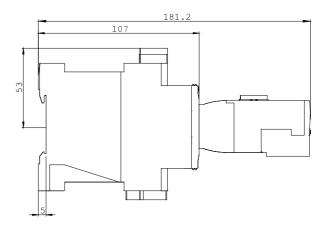
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

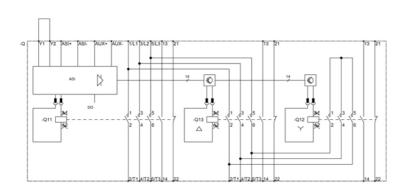
 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3RA2426-8XH32-1BB4/all}}$

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2426-8XH32-1BB4







last change: Oct 24, 2011