

STAR-DELTA COMB. WITH I/O-LINK AC3,
22KW/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	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		K
• according to DIN EN 61346-2		Q

Manufacturer article number		
• of the function module for communication included in the scope of supply		3RA2711-2CA00
• 1 / of the contactor included in the scope of supply		3RT2027-2BB40-0CC0
• 2 / of the contactor included in the scope of supply		3RT2027-2BB40
• 3 / of the contactor included in the scope of supply		3RT2026-2BB40
• of the RS applied assembly kit		3RA2923-2BB2
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	A	40
• at 60 °C ambient temperature / rated value	A	35
• at AC-2 / at 400 V / rated value	A	40
• 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	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

<ul style="list-style-type: none"> • at 110 V / rated value 	A	2.5
<ul style="list-style-type: none"> • with 2 current paths in series / at DC-3 / at DC-5 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	35
<ul style="list-style-type: none"> • at 110 V / rated value 	A	15
<ul style="list-style-type: none"> • with 3 current paths in series / at DC-3 / at DC-5 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	35
<ul style="list-style-type: none"> • at 110 V / rated value 	A	35
Service power		
<ul style="list-style-type: none"> • at AC-2 / at 400 V / rated value 	kW	18.5
<ul style="list-style-type: none"> • at AC-3 		
<ul style="list-style-type: none"> • at 400 V / rated value 	kW	22
<ul style="list-style-type: none"> • at 500 V / rated value 	kW	18.5
<ul style="list-style-type: none"> • at 690 V / rated value 	kW	22
<ul style="list-style-type: none"> • at AC-4 / at 400 V / rated value 	kW	4.4
Off-load operating frequency	1/h	15
Frequency of operation		
<ul style="list-style-type: none"> • at AC-1 / according to IEC 60947-6-2 / maximum 	1/h	1,000
<ul style="list-style-type: none"> • at AC-2 / according to IEC 60947-6-2 / maximum 	1/h	1,000
<ul style="list-style-type: none"> • at AC-3 / according to IEC 60947-6-2 / maximum 	1/h	1,000
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • 1 / rated value 	Hz	50
<ul style="list-style-type: none"> • 2 / rated value 	Hz	60
Control supply voltage / 1		
<ul style="list-style-type: none"> • for DC / rated value 	V	24
Operating range factor control supply voltage rated value / of the solenoid		
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • 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
Number of NO contacts / for auxiliary contacts		3
		0
Operating current / of the auxiliary contacts		
	A	10
	A	6
	A	3
	A	6
	A	6
	A	3
	A	1
	A	10
	A	2
	A	2
	A	1
	A	0.3

Short-circuit:

Design of the fuse link

- for short-circuit protection of the main circuit
 - with type of assignment 1 / required
- at type of coordination 2 / required
- for short-circuit protection of the auxiliary switch / required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A

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		
	mm	6
	mm	0

• upwards	mm	6
• downwards	mm	6
• sideways	mm	6
Distance, to be maintained, to earthed part		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6
Distance, to be maintained, conductive elements		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6

Connections:

Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

spring-loaded terminals

spring-loaded terminals

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
- for auxiliary contacts
 - solid
 - finely stranded
 - with conductor end processing
 - without conductor final cutting
- for AWG conductors / for auxiliary contacts

2x (1 ... 10 mm²)

2x (1 ... 10 mm²)

2x (1 ... 6 mm²)

2x (1 ... 6 mm²)

1x (18 ... 8)

2x (0.5 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²)







2 x (0.5 ... 1.5 mm²)

2x (20 ... 14)

Certificates/approvals:

Verification of suitability

CE / UL / CSA / CCC

General Product Approval	Test Certificates
ROSTEST	Manufacturer
Shipping Approval	
 ABS	 DNV  GL  LRS  PRS  RINA
Shipping Approval	other
 RMRS	other

UL/CSA ratings

Contact rating designation / for auxiliary contacts / according to UL	A600 / Q600
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Safety:

B10 value / with high demand rate		1,000,000
• according to SN 31920		
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	a	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

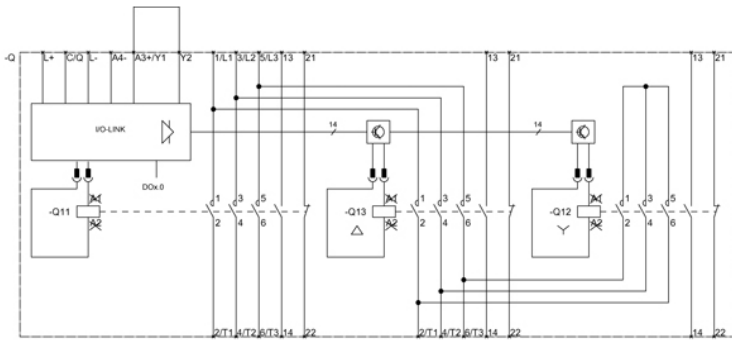
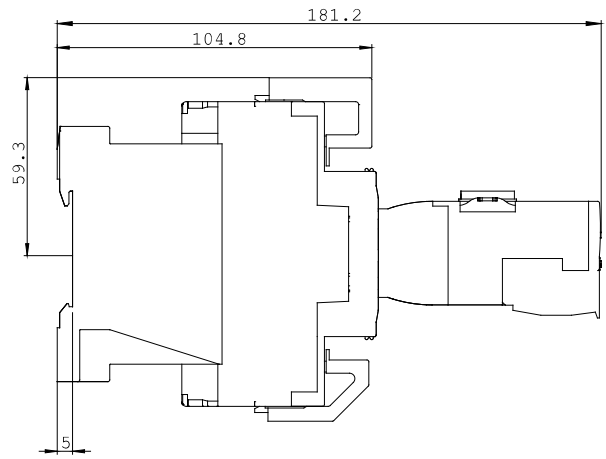
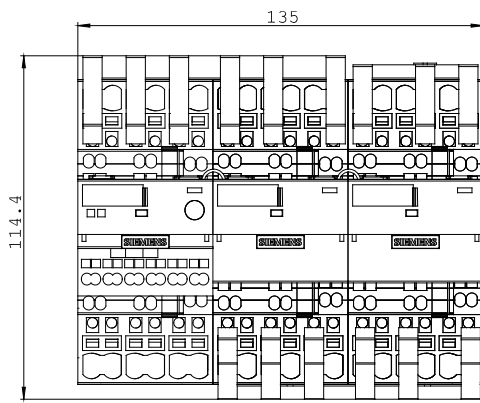
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RA2426-8XE32-2BB4/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2426-8XE32-2BB4



last change:

Oct 17, 2011