ST.-D. (WYE-D.) COM. W I/O-LINK AC3:22/30KW/400V 24V DC SIZE S2,

SCREW CONNECTION ELECTR. AND MECH. INTERLOCK 3NO+3NC INTEGR.,



General technical data:		
product brand name		SIRIUS
Product function		Star-delta combination with I/O-Link
Size of contactor		S2
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 height above sea level / maximum	m	2,000
Ambient temperature / during storage	°C	-55 +80
Ambient temperature / during operation	°C	-25 +60
Surge voltage resistance / Rated value	kV	6
Active power loss / per conductor / typical	W	2.2
Manufacturer article number		
• of the supplied function module for wye-delta circuits		3RA2711-1CA00
• 1 / of the supplied contactor		3RT2035-1NB30-0CC0
• 2 / of the supplied contactor		3RT2035-1NB30
• 3 / of the supplied contactor		3RT2026-1NB30
of the supplied RS assembly kit		3RA2934-2BB1
Mechanical service life (switching cycles)		
of the contactor / typical		10,000,000

• of the contactor with added auxiliary switch block / typical		10,000,000
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of the contactor with added auxiliary switch block / typical		10,000,000	
Communication/ Protocol:			
Product function			
Bus communication		No	
Control circuit interface with IO link		Yes	
Protocol / is 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 ambient temperature 40 °C / Rated value	Α	60	
• at ambient temperature 60 °C / Rated value	Α	55	
• at AC-2 / at 400 V / Rated value	Α	50	
• at AC-3 / at 400 V / Rated value	Α	50	
Operating power			
• at AC-2 / at 400 V / Rated value	kW	22	
• at AC-3			
• at 400 V / Rated value	kW	30	
• at AC-4 / at 400 V / Rated value	kW	38	
No-load switching frequency	1/h	1,500	
Operating frequency			
• at AC-1 / maximum	1/h	1,000	
• at AC-2 / maximum	1/h	750	
• at AC-3 / maximum	1/h	1,000	
• at AC-4 / maximum	1/h	300	
Control circuit/ Control:			
Type of voltage / of the control supply voltage		AC/DC	
Control supply voltage / 1			
• for DC	V	20 33	
• with AC			
• at 50 Hz	V	20 33	
• with AC			
• at 60 Hz	V	20 33	

the magnet coil

Operating range factor control supply voltage rated value / of

	0.8 1.1
	0.8 1.1
	0.8 1.1
V-A	40
V-A	40
	0.64
	0.5
V-A	2
V-A	2
	0.36
	0.39
W	23
W	1
	V·A V·A W

Auxiliary circuit:		
Product expansion / Auxiliary switch		No
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Number of NC contacts / for auxiliary contacts		
• instantaneous contact		3
lagging switching		0
Number of NO contacts / for auxiliary contacts		
• instantaneous contact		3
leading contact		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	Α	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 NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
• for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A

Installation/ mounting/ dimensions:			
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
Mounting type		screw fixing	
Width	mm	177.5	
Height	mm	142	
Depth	mm	223	

Connections/ terminals:			
Design of the electrical connection			
for main current circuit	screw-type terminals		
for auxiliary and control current circuit	screw-type terminals		
Type of connectable conductor cross-section			
• for main contacts			
• single or multi-stranded	2x (1 35 mm²), 1x (1 50 mm²)		
 finely stranded / with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)		
for AWG conductors / for main contacts	2x (18 2), 1x (18 1)		
Type of connectable conductor cross-section			
for auxiliary contacts			
• single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)		
 finely stranded / with core 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:

Declaration of Conformity



UL/CSA ratings:		
Contact rating / of the auxiliary contacts / acc. to UL	A600 / Q600	

Safety related data:			
B10 value / with high demand rate			
• acc. to SN 31920		1,000,000	
Failure rate [FIT] / with low demand rate			
• acc. to SN 31920	FIT	100	
Proportion of dangerous failures			
• with low demand rate / acc. to SN 31920	%	40	
• with high demand rate / acc. to SN 31920	%	73	
T1 value / for proof test interval or service life			
• acc. to IEC 61508	а	20	

Further information:

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

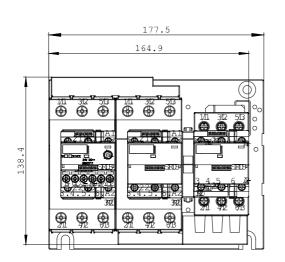
http://www.siemens.com/cax

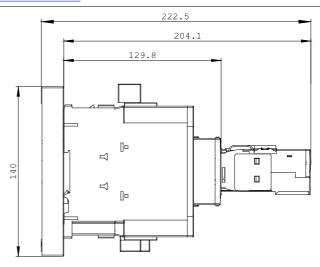
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

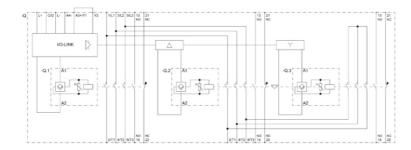
http://support.automation.siemens.com/WW/view/en/3RA2434-8XE32-1NB3/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2434-8XE32-1NB3}$







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