SIEMENS

Data sheet

3RA2436-8XE32-1NB3

Contactor assembly for star-delta (wye-delta) start I/O-Link AC-3, 45 kW/400 V, 20-33 V AC/DC 3-pole, Size S2 Screw terminal Electrical and mechanical interlock 3 NO + 3 NC integrated



product brand name	SIRIUS			
product designation	Contactor assembly for star-delta (wye-delta) start			
product type designation	3RA24			
manufacturer's article number				
1 of the supplied contactor	3RT2036-1NB30-0CC0			
2 of the supplied contactor	3RT2036-1NB30			
3 of the supplied contactor	3RT2028-1BB40			
of the supplied RS assembly kit	3RA2933-2C			
of the supplied function module for communication	3RA2711-1CA00			
General technical data				
size of contactor	S2			
product extension auxiliary switch	No			
shock resistance at rectangular impulse				
• at DC	7.7g / 5 ms, 4.5g / 10 ms			
shock resistance with sine pulse				
• at DC	12g / 5 ms, 7g / 10 ms			
mechanical service life (operating cycles)				
of contactor typical	10 000 000			
 of the contactor with added auxiliary switch block typical 	10 000 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	10/01/2014			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
 during operation 	-25 +60 °C			
during storage	-55 +80 °C			
Main circuit				
number of poles for main current circuit	3			
number of NO contacts for main contacts	3			
number of NC contacts for main contacts	0			
operating voltage				
at AC-3 rated value maximum	690 V			
operational current				
• at AC-3				
— at 400 V rated value	86 A			
operating power				
• at AC-3				
— at 400 V rated value	45 kW			
operating frequency				
• at AC-3 maximum	800 1/h			

Control circuit/ Control			
type of voltage of the control supply voltage	AC/DC		
control supply voltage 1 at AC			
	20 22 1/		
• at 50 Hz	20 33 V		
• at 60 Hz	20 33 V		
control supply voltage 1			
• at DC	20 33 V		
design of the surge suppressor	with varistor		
apparent pick-up power of magnet coil at AC			
● at 50 Hz	82 VA		
● at 60 Hz	82 VA		
inductive power factor with closing power of the coil			
● at 50 Hz	0.64		
• at 60 Hz	0.5		
apparent holding power of magnet coil at AC			
• at 50 Hz	6 VA		
• at 60 Hz	6 VA		
inductive power factor with the holding power of the coil	·		
at 50 Hz	0.36		
	0.36		
• at 60 Hz	0.39		
closing power of magnet coil at DC	28 W		
holding power of magnet coil at DC	4 W		
Auxiliary circuit			
number of NC contacts for auxiliary contacts			
instantaneous contact	3		
number of NO contacts for auxiliary contacts			
instantaneous contact	3		
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles		
UL/CSA ratings			
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection			
Short-circuit protection design of the fuse link			
design of the fuse link			
design of the fuse link • for short-circuit protection of the main circuit	ag NH 3NA DIAZED 5SB NEOZED 5SE: 160 A		
design of the fuse link ● for short-circuit protection of the main circuit — with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A		
 design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required 	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A		
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A fuse gG: 10 A		
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and		
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design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw fixing		
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design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw fixing 142 mm 177.5 mm 223 mm		
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— at the side		10 mm				
Connections/ Terminals						
type of electrical connection						
 for main current circuit 		screw-type terminals				
 for auxiliary and control circuit 		screw-type terminals				
 at contactor for auxiliary contacts 		Screw-type terminals				
 of magnet coil 		Screw-type terminals				
type of connectable conductor cross-sections for	main contacts					
• solid		2x (1 35 mm²), 1x (1 50 mm²)				
 solid or stranded 		2x (1 35 mm²), 1x (1 50 mm²)				
 finely stranded with core end processing 		2x (1 25 mm²), 1x (1 35 mm²)				
type of connectable conductor cross-sections	etions					
 for auxiliary contacts 						
 solid or stranded 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 finely stranded with core end process 	ing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 for AWG cables for auxiliary contacts 		2x (20 16), 2x (18 14)				
Safety related data						
B10 value with high demand rate according to SN	I 31920	1 000 000				
proportion of dangerous failures						
with low demand rate according to SN 31920		40 %				
 with high demand rate according to SN 319 	920	73 %				
failure rate [FIT] with low demand rate according	to SN 31920	100 FIT				
T1 value for proof test interval or service life acco 61508	rding to IEC	20 a				
protection class IP on the front according to IEC 60529		IP20				
touch protection on the front according to IEC 60529 finger-sa		finger-safe, for vertical contact	nger-safe, for vertical contact from the front			
Communication/ Protocol						
product function bus communication		No				
protocol is supported AS-Interface protocol		No				
product function control circuit interface with IO lir	nk	Yes				
Certificates/ approvals						
General Product Approval	Declaration of Conformity		Test Certificates	Marine / Shipping		

Confirmation







Type Test Certificates/Test Report



other Dangerous Good

<u>Confirmation</u> <u>Transport Information</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2436-8XE32-1NB3

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2436-8XE32-1NB3

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

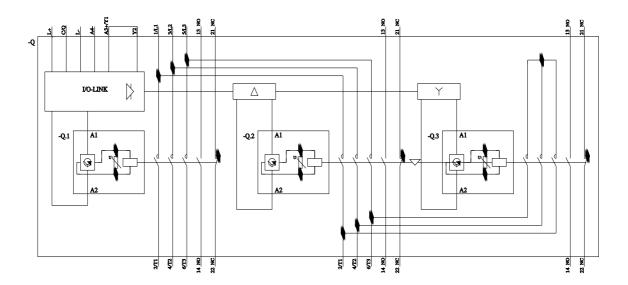
https://support.industry.siemens.com/cs/ww/en/ps/3RA2436-8XE32-1NB3

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2436-8XE32-1NB3&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2436-8XE32-1NB3/char



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