SIEMENS

Data sheet

3RA2446-8XF32-1NB3

Contactor assembly for star-delta (wye-delta) start AC-3, 90 kW/400 V 20-33 V AC/DC Size S3, screw terminal electrical and mechanical interlock 3 NO+3 NC, integrated varistor



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	3RT2046-1NB30			
2 of the supplied contactor	3RT2046-1NB30			
3 of the supplied contactor	3RT2037-1NB30			
of the supplied RS assembly kit	3RA2943-2C			
of the supplied function module for wye-delta circuits	3RA2816-0EW20			
General technical data				
size of contactor	S3			
product extension auxiliary switch	No			
shock resistance at rectangular impulse				
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms			
• at DC	6.7 g / 5 ms, 4g / 10 ms			
shock resistance with sine pulse				
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms			
• at DC	10.6 g / 5 ms, 6.3 g / 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)	03/01/2017			
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5			
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	160 A			
operating power				

-1.40.0			
• at AC-3	00.144		
— at 400 V rated value	90 kW		
— at 690 V rated value	132 kW		
operating frequency	850 1/h		
at AC-3 maximum Control circuit/ Control	850 1/11		
	AC/DC		
type of voltage of the control supply voltage	AC/DC		
control supply voltage 1 at AC	20 22 1/		
at 50 Hzat 60 Hz	20 33 V 20 33 V		
	20 33 V		
control supply voltage 1 • at DC	20 33 V		
operating range factor control supply voltage rated value of	20 33 V		
magnet coil at AC			
● at 50 Hz	0.8 1.1		
• at 60 Hz	0.85 1.1		
design of the surge suppressor	with varistor		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	328 VA		
• at 60 Hz	328 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.95		
• at 60 Hz	0.95		
apparent holding power of magnet coil at AC			
• at 50 Hz	8.2 VA		
• at 60 Hz	8.2 VA		
inductive power factor with the holding power of the coil			
● at 50 Hz	0.95		
● at 60 Hz	0.95		
closing power of magnet coil at DC	154 W		
holding power of magnet coil at DC	5.6 W		
Assolians alsouit			
Auxiliary circuit			
number of NC contacts for auxiliary contacts			
	3		
number of NC contacts for auxiliary contacts	3		
number of NC contacts for auxiliary contacts • instantaneous contact	3		
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts			
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	3		
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact contact reliability of auxiliary contacts	3		
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact contact reliability of auxiliary contacts UL/CSA ratings	3 < 1 error per 100 million operating cycles		
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL	3 < 1 error per 100 million operating cycles		
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection	3 < 1 error per 100 million operating cycles		
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	3 < 1 error per 100 million operating cycles		
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	3 <1 error per 100 million operating cycles A600 / Q600		
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	3 <1 error per 100 million operating cycles A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A		
number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection 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	3 <1 error per 100 million operating cycles A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A		
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General Product Approval	Deciaration	of Conformity	otiler	Dangerous Good		
Certificates/ approvals	Doclaration	of Conformity	other	Dangorous Good		
product function control circuit interface with IO	link	No				
protocol is supported AS-Interface protocol		No				
oduct function bus communication		No				
ommunication/ Protocol						
touch protection on the front according to I	EC 60529	finger-safe, for vertice	cal contact from the front			
protection class IP on the front according to IEC 60529		IP20				
T1 value for proof test interval or service life ac 61508	cording to IEC	20 a				
failure rate [FIT] with low demand rate according	ig to SN 31920	100 FIT				
with high demand rate according to SN 3	31920	73 %				
 with low demand rate according to SN 3 		40 %				
proportion of dangerous failures						
B10 value with high demand rate according to	SN 31920	1 000 000				
afety related data						
for AWG cables for auxiliary contacts		2x (20 16), 2x (18 14)				
 finely stranded with core end proce 	essing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
— solid or stranded		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 for auxiliary contacts 						
type of connectable conductor cross-sectio	ns					
finely stranded without core end process	sing	2x (10 35 mm²), 1x (10 50 mm²)				
 finely stranded with core end processing 	l	2x (2.5 35 mm²), 1x (2.5 50 mm²)				
solid or stranded		2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)				
type of connectable conductor cross-sections for	or main contacts					
of magnet coil		Screw-type terminals				
 at contactor for auxiliary contacts 		Screw-type terminals				
 for auxiliary and control circuit 		screw-type terminals				
 for main current circuit 		screw-type terminals				
type of electrical connection						
onnections/ Terminals						
— at the side		10 mm				
— downwards		10 mm				
— upwards		10 mm				
— backwards		0 mm				
— forwards		10 mm				
for live parts						
— downwards		10 mm				
— at the side		10 mm				
— backwards — upwards		0 mm 10 mm				

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

.com/cs/ww/en/view/109813875

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2446-8XF32-1NB3

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2446-8XF32-1NB3}$

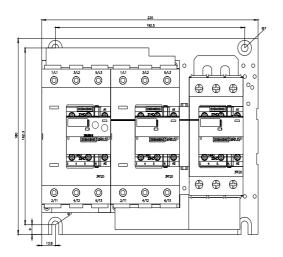
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

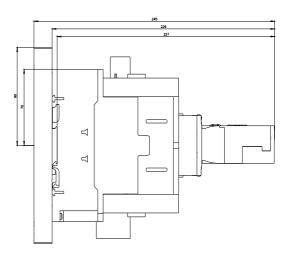
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RA2446-8XF32-1NB3}$

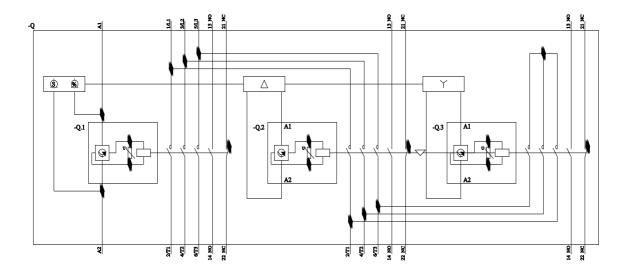
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2446-8XF32-1NB3&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2446-8XF32-1NB3&objecttype=14&gridview=view1







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