SIEMENS

Data sheet

3RA2437-8XF32-1NB3

Contactor assembly for star-delta (wye-delta) start AC-3, 55 kW/400 V,24-33 V AC/DC 3-pole, size S2 screw terminals 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	3RT2037-1NB30		
2 of the supplied contactor	3RT2037-1NB30		
3 of the supplied contactor	3RT2035-1NB30		
of the supplied RS assembly kit	3RA2933-2BB1		
of the supplied function module for wye-delta circuits	3RA2816-0EW20		
General technical data			
size of contactor	S2		
product extension auxiliary switch	No		
shock resistance at rectangular impulse			
• at AC	7.7g / 5 ms, 4.5g / 10 ms		
• at DC	7.7g / 5 ms, 4.5g / 10 ms		
shock resistance with sine pulse			
• at AC	12g / 5 ms, 7g / 10 ms		
• 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	115 A		
operating power			
• at AC-3			
— at 400 V rated value	55 kW		

operating frequency	
• at AC-3 maximum	700 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
● at 50 Hz	20 33 V
● at 60 Hz	20 33 V
control supply voltage 1	
• at DC	20 33 V
operating range factor control supply voltage rated value of 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	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
• 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	4 **
number of NC contacts for auxiliary contacts	2
• 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	
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: 250 A
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
• for short-circuit protection of the auxiliary switch required	fuse 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
fastening method	screw fixing
height	142 mm
width	177.5 mm
depth	223 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
for grounded parts	
— forwards	10 mm
— backwards	0 mm

— downwards		10 mm				
for live parts		10 111111				
— forwards		10 mm				
— backwards		0 mm				
— upwards		10 mm				
— downwards		10 mm				
— at the side		10 mm				
Connections/ Terminals		10 11111				
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	7 ,				
• 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			,			
for auxiliary contacts						
— solid or 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 cables for auxiliary contacts 		2x (20 16), 2x (18 14)				
Safety related data						
B10 value with high demand rate according to SN 319.	20	1 000 000				
proportion of dangerous failures						
 with low demand rate according to SN 31920 	with low demand rate according to SN 31920		40 %			
 with high demand rate according to SN 31920 		73 %				
failure rate [FIT] with low demand rate according to SN 31920		100 FIT				
T1 value for proof test interval or service life according 61508	to IEC	20 a				
protection class IP on the front according to IEC 60	0529	IP20				
touch protection on the front according to IEC 605	29	finger-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 link	No					
Certificates/ approvals						
General Product Approval De	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).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3RA2437-8XF32-1NB3

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2437-8XF32-1NB3

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2437-8XF32-1NB3

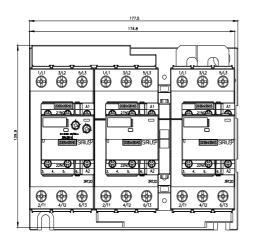
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2437-8XF32-1NB3&lang=en

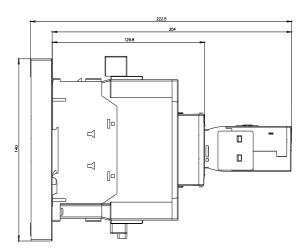
Characteristic: Tripping characteristics, I2t, Let-through current

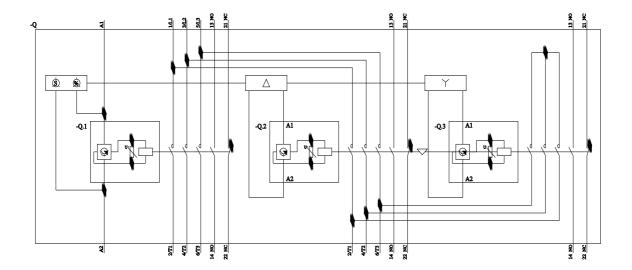
https://support.industry.siemens.com/cs/ww/en/ps/3RA2437-8XF32-1NB3/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2437-8XF32-1NB3&objecttype=14&gridview=view1







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