## SIEMENS

## Data sheet

## 3RA2415-8XF31-2AF0

Contactor assembly for star-delta (wye-delta) start AC-3, 5.5 kW/400 V, 110 V AC 50/60 Hz, 3-pole, Size S00 Spring-type terminals electrical and mechanical interlock 3 NO integrated



product brand name	SIRIUS		
product designation	Contactor assembly for star-delta (wye-delta) start		
product type designation	3RA24		
manufacturer's article number			
<ul> <li>1 of the supplied contactor</li> </ul>	<u>3RT2015-2AF01</u>		
• 2 of the supplied contactor	<u>3RT2015-2AF01</u>		
<ul> <li>3 of the supplied contactor</li> </ul>	<u>3RT2015-2AF01</u>		
<ul> <li>of the supplied RS assembly kit</li> </ul>	<u>3RA2913-2BB2</u>		
<ul> <li>of the supplied function module for wye-delta circuits</li> </ul>	<u>3RA2816-0EW20</u>		
General technical data			
size of contactor	S00		
product extension auxiliary switch	No		
shock resistance at rectangular impulse			
• at AC	6,7g / 5 ms, 4,2g / 10 ms		
• at DC	6,7g / 5 ms, 4,2g / 10 ms		
shock resistance with sine pulse			
• at AC	10,5g / 5 ms, 6,6g / 10 ms		
• at DC	10,5g / 5 ms, 6,6g / 10 ms		
mechanical service life (operating cycles)			
<ul> <li>of contactor typical</li> </ul>	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)	10/01/2009		
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	12 A		
operating power			
• at AC-3			
— at 400 V rated value	5.5 kW		

— at 500 V rated value	7.2 kW
— at 690 V rated value	9.2 kW
operating frequency	
• at AC-3 maximum	1 000 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	
at 50 Hz rated value	110 V
• at 60 Hz rated value	110 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
apparent pick-up power of magnet coil at AC	
• at 50 Hz	56 VA
• at 60 Hz	51 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	10.4 VA
• at 60 Hz	8.6 VA
inductive power factor with the holding power of the coil	0.05
• at 50 Hz	0.25
• at 60 Hz	0.25
Auxiliary circuit	
number of NO contacts for auxiliary contacts	2
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	
<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> </ul>	
• for short-circuit protection of the main circuit	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul>	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
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<ul> <li>for short-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
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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	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 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
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- downward	ls		6 mm		
— downwards — at the side		6 mm			
Connections/ Terminals			0 mm		
type of electrical con					
<ul> <li>for main current</li> </ul>			spring-loaded terminals		
for auxiliary and control circuit		spring-loaded terminals			
at contactor for auxiliary contacts		Spring-type terminals			
of magnet coil			Spring-type terminals		
type of connectable conductor cross-sections for main contacts					
• solid			2x (0.5 4 mm²)		
solid or stranded		2x (0,5 4 mm²)			
• finely stranded with core end processing			2x (0.5 2.5 mm²)		
finely stranded without core end processing			2x (0.5 2.5 mm²)		
••	conductor cross-section	ns			
<ul> <li>for auxiliary con</li> </ul>	ntacts				
— solid or str	randed		2x (0.5 2.5 mm²)		
<ul> <li>finely strar</li> </ul>	nded with core end proce	ssing	2x (0.5 1.5 mm²)		
— finely strar	nded without core end pro	cessing	2x (0.5 1.5 mm²)		
<ul> <li>for AWG cables</li> </ul>	s for auxiliary contacts		2x (20 14)		
Safety related data					
B10 value with high de	emand rate according to S	3N 31920	1 000 000		
proportion of danger	rous failures				
	d rate according to SN 3 <sup>2</sup>	920	40 %		
	nd rate according to SN 3		75 %		
			100 FIT		
failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508		20 a			
	n the front according to	IEC 60529	IP20		
-	the front according to I		finger-safe, for vertical cor	stact from the front	
Communication/ Proto		.0 00323			
			Ne		
product function bus			No		
protocol is supported A	-		No		
product function control circuit interface with IO link		No			
Certificates/ approvals	3				
General Product App	proval	Declaration of	Conformity	Test Certificates	
Oraclination				Turne Test Ostifie	
Confirmation	FAL	()	UK	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate
	LIIL	EG-Konf.	UK CA		_
Marine / Shipping	LIIL	EG-Konf.	CA		
Marine / Shipping	LIIL	EG-Konf.	CA		
Marine / Shipping	LIIL	EG-Konf.	Lloyds Register		
Marine / Shipping		EG-Konf.		PRS	RINA
Marine / Shipping	LIIL BUREAU VERITAS	EG-Konf.	Lloyds Register	PRS	RINA
ABS			Lloyds Register uis	PRS	RINA
Marine / Shipping	<b>E</b> <b>B</b> <b>B</b> <b>B</b> <b>B</b> <b>B</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b>	Railway	Lloyds Register uis	PRS	RINA
Marine / Shipping	<b>E</b> <b>B</b> <b>B</b> <b>B</b> <b>B</b> <b>B</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b>	Railway Vibration and S	Lloyds Register uis	PRS	RINA

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=3RA2415-8XF31-2AF0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2415-8XF31-2AF0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2415-8XF31-2AF0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2415-8XF31-2AF0&lang=en

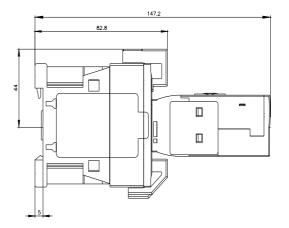
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

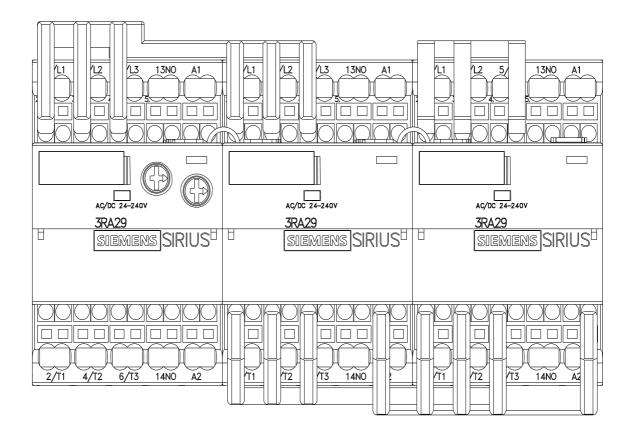
https://support.industry.siemens.com/cs/ww/en/ps/3RA2415-8XF31-2AF0/char

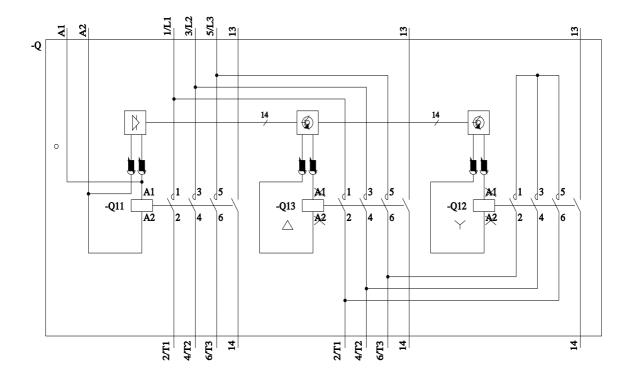
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb= 

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