SIEMENS

Data sheet

3RA2415-8XF31-1AP0

Contactor assembly for star-delta (wye-delta) start AC-3, 5.5 kW/400 V, 230 V AC 50/60 Hz, 3-pole, Size S00 screw 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			
• 1 of the supplied contactor	<u>3RT2015-1AP01</u>		
 2 of the supplied contactor 	<u>3RT2015-1AP01</u>		
 3 of the supplied contactor 	<u>3RT2015-1AP01</u>		
 of the supplied RS assembly kit 	<u>3RA2913-2BB1</u>		
 of the supplied function module for wye-delta circuits 	<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)			
 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)	10/01/2009		
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	230 V
• at 60 Hz rated value	230 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 instantaneous contact 	3
contact reliability of auxiliary contacts	S < 1 error per 100 million operating cycles
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
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Short-circuit protection	
Short-circuit protection design of the fuse link	
design of the fuse link	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
design of the fuse link • for short-circuit protection of the main circuit	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
 design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 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 	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 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: 20 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 Installation/ mounting/ dimensions	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
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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	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 screw and snap-on mounting onto 35 mm DIN rail 68 mm
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 downwards 			6 mm		
- at the side			6 mm		
Connections/ Terminals					
type of electrical conr					
• for main current (screw-type terminals		
 for auxiliary and 			screw-type terminals		
 at contactor for a 			Screw-type terminals		
 of magnet coil 			Screw-type terminals		
type of connectable cor	nductor cross-sections f	or main contacts			
 solid 			$2x (0.5 - 1.5 \text{ mm}^2) 2$	x (0.75 2.5 mm²), 2x 4 mm²	
 solid or stranded 			· · · · · · · · · · · · · · · · · · ·	x (0,75 2,5 mm²), 2x (0,5 4 n	1m ²)
	ith core end processing		2x (0.5 1.5 mm ²), 2		
type of connectable c			2x (0.0 1.0 mm), 2	x (0.70 2.0 mm)	
 for auxiliary containing 					
			2x (0.5 1.5 mm²), 2	x (0.75 2.5 mm²)	
 — solid or stranded finally stranded with core and processing 		2x (0.5 1.5 mm²), 2 2x (0.5 1.5 mm²), 2			
 finely stranded with core end processing for AWG cables for auxiliary contacts 			· · · · ·		
Safety related data	or auxiliary contacts		2x (20 16), 2x (18 .	14)	
	mand rate apparding to	SN 21020	1 000 000		
B10 value with high der proportion of dangero	•	31920	1 000 000		
		1000	40.0/		
	rate according to SN 3		40 %		
	d rate according to SN 3		75 %		
failure rate [FIT] with low		-	100 FIT		
T1 value for proof test in 61508	nterval or service life ac	cording to IEC	20 a		
protection class IP on	the front according to	DIEC 60529	IP20		
touch protection on th	ne front according to I	EC 60529	finger-safe, for vertica	I contact from the front	
Communication/ Protoc	ol				
product function bus	communication		No		
protocol is supported A	S-Interface protocol		No		
product function control	circuit interface with IC	link	No		
Certificates/ approvals					
General Product App	roval	Declaration of	f Conformity	Test Certificates	
			_		
<u>Confirmation</u>	EAC	<u> </u>		<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate
			EG-Konf.		
Marine / Shipping		CF	EG-Konf.		
Marine / Shipping			EG-Konf. Lloyds Registe Uts	PRS	RINA
Marine / Shipping	BUREAU VERITAS	C F DNV DNV Railway	Llovde Registe	PRS	RINA
ABS		Railway Vibration and S	Lloyds Registe urs	PRS	RINA
ABS	other		Lloyds Registe urs	PRS	EINA

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=3RA2415-8XF31-1AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2415-8XF31-1AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2415-8XF31-1AP0

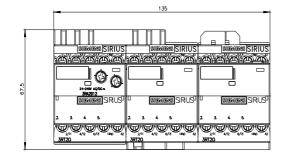
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

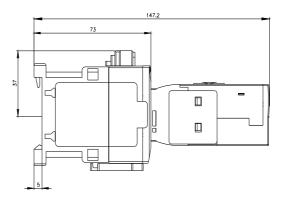
http://www.automation.siemens.com/bilddb/cax_de.aspx?ml =3RA2415-8XF31-1AP0&lang=en

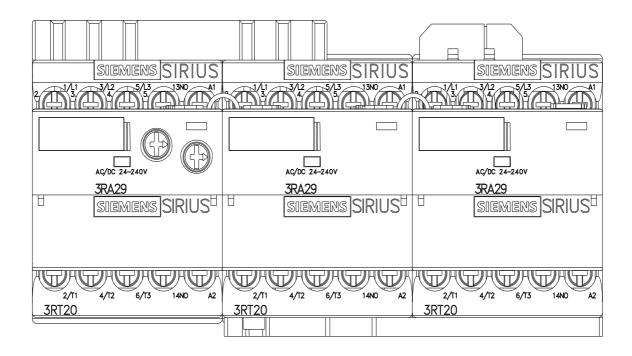
Characteristic: Tripping characteristics, I²t, Let-through current

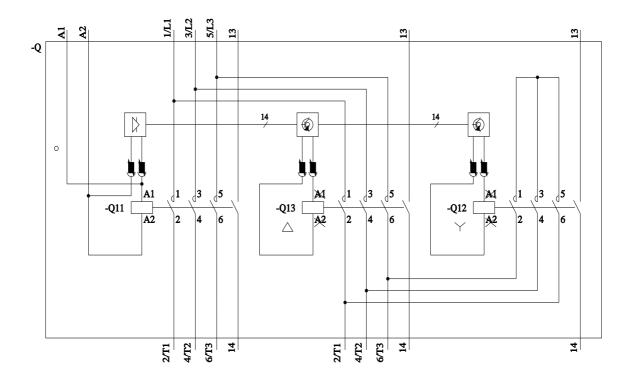
https://support.industry.siemens.com/cs/ww/en/ps/3RA2415-8XF31-1AP0/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2415-8XF31-1AP0&objecttype=14&gridview=view1









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