SIEMENS

Data sheet

3RA2417-8XF31-2AB0

STAR-DELTA COMB. AC3, 11KW/400V AC24V, 50/60HZ, 3-POLE, SZ S00, SPRING-LOADED TERMINAL ELECTR. AND MECH. INTERLOCK 3NO INTEGR.



product brand name	SIRIUS
Product designation	star-delta (wye-delta) contactor assembly 3RA24
Manufacturer article number	
 1 of the supplied contactor 	<u>3RT2018-2AB01</u>
 2 of the supplied contactor 	<u>3RT2018-2AB01</u>
 3 of the supplied contactor 	<u>3RT2016-2AB01</u>
 of the supplied RS assembly kit 	3RA2913-2BB2
 of the supplied function module for wye-delta 	3RA2816-0EW20
circuits	

Canaral	technica	I data:
General	lechnica	

Insulation voltage			
 with degree of pollution 3 Rated value 	V	690	
Degree of pollution		3	
Shock resistance		9.8g / 5 ms and 5.9g / 10 ms	
Surge voltage resistance Rated value	kV	6	
Mechanical service life (switching cycles)			
 of the contactor typical 		10 000 000	
 of the contactor with added auxiliary switch 		10 000 000	
block typical			
Protection class IP			
• on the front		IP20	
Equipment marking			
• acc. to DIN EN 81346-2		Q	
	_		
Main circuit:			
Number of poles for main current circuit		3	

Number of NC contacts for main contacts	-	0
Number of NO contacts for main contacts		3
Operating voltage		
• at AC-3 Rated value maximum	V	690
Operating current		
● at AC-1		
— at 400 V at ambient temperature 40 °C	А	22
Rated value		
— at 400 V at ambient temperature 60 $^\circ C$	А	20
Rated value		
• at AC-2 at 400 V Rated value	A	25
• at AC-3		
— at 400 V Rated value	A	25
Operating power		
• at AC-2 at 400 V Rated value	kW	11
Operating power		
• at AC-3		
— at 400 V Rated value	kW	11
— at 500 V Rated value	kW	11
— at 690 V Rated value	kW	11
Operating frequency		
• at AC-3 maximum	1/h	1 000
No-load switching frequency	1/h	1 500
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage 1 with AC	_	
• at 50 Hz Rated value	V	24
Operating range factor control supply voltage rated		
value of the magnet coil with AC• at 50 Hz		0.8 1.1
		0.85 1.1
• at 60 Hz		0.00 1.1
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		
— instantaneous contact		0
— lagging switching		0
Number of NO contacts		
 for auxiliary contacts 		
— instantaneous contact		3
— leading contact		0
Product expansion Auxiliary switch		No

Operating current of the auxiliary contacts at AC-12 maximum	A	10
Operating current of the auxiliary contacts at AC-15	-	
• at 230 V	А	6
● at 400 V	А	3
Operating current of the auxiliary contacts at DC-13	-	
• at 24 V	A	10
• at 60 V	A	2
• at 110 V	А	1
• at 220 V	А	0.3
Contact reliability of the auxiliary contacts		< 1 error per 100 million operating cycles
JL/CSA ratings:		
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
 for short-circuit protection of the main circuit 		
— with type of assignment 1 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
 for short-circuit protection of the auxiliary switch 		fuse gL/gG: 10 A
required		
nstallation/ mounting/ dimensions:		
mounting position		+/-180° rotation possible on vertical mounting
		surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type		0
		screw and snap-on mounting onto 35 mm standard mounting rail
Height	mm	screw and snap-on mounting onto 35 mm standard
Width	mm mm	screw and snap-on mounting onto 35 mm standard mounting rail
Width Depth	-	screw and snap-on mounting onto 35 mm standard mounting rail 84
Width Depth Required spacing	mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135
Width Depth Required spacing • with side-by-side mounting	mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135 145
Width Depth Required spacing	mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135 145 6
Width Depth Required spacing • with side-by-side mounting	mm mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135 145
Width Depth Required spacing • with side-by-side mounting — forwards	mm mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135 145 6
Width Depth Required spacing • with side-by-side mounting	mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135 145 6 0
Width Depth Required spacing • with side-by-side mounting	mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135 145 6 0 6
Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards	mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135 145 6 0 6 6 6
Width Depth Required spacing • with side-by-side mounting	mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135 145 6 0 6 6 6
Width Depth Required spacing • with side-by-side mounting	mm mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail 84 135 145 6 6 6 6 6

— at the side	mm	6
— downwards	mm	6
• for live parts		
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6
Connections/Terminale:	_	
Connections/ Terminals: Type of electrical connection	-	
for main current circuit		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Type of connectable conductor cross-section	-	
for main contacts		
— single or multi-stranded		2x (0,5 4 mm²)
 finely stranded with core end processing 		2x (0.5 2.5 mm ²)
— finely stranded without core end		2x (0.5 2.5 mm ²)
processing		
 for AWG conductors for main contacts 		1x (20 12)
 for auxiliary contacts 		
— single or multi-stranded		2x (0,5 2,5 mm²)
— finely stranded with core end processing		2x (0.5 1.5 mm²)
— finely stranded without core end		2x (0.5 1.5 mm²)
processing		
 for AWG conductors for auxiliary contacts 		2x (20 14)
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	37
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures	-	
 with low demand rate acc. to SN 31920 	%	40
 with high demand rate acc. to SN 31920 	%	75
Failure rate [FIT] with low demand rate acc. to SN	FIT	100
31920		
T1 value for proof test interval or service life acc. to	У	20
IEC 61508		finger safe
Protection against electrical shock		finger-safe
Mechanical data:		
Size of contactor		S00
Communication/ Protocol:		
Product function Bus communication		No

Protocol is supported		
AS-interface protocol		No
Product function Control circuit interface with IO link		No
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
• during operation	°C	-25 +60
• during storage	°C	-55 +80

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Certificates/ approvals:
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General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval		
EHC	EG-Konf.	Special Test Certificate	ABS	BUREAU VERITAS	
Shipping Appro	oval				other
GL C	Lloyd's Register	PRS	RINA	RMRS	Environmental Confirmations

other other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

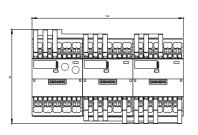
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

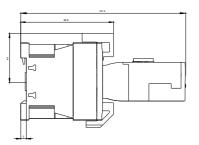
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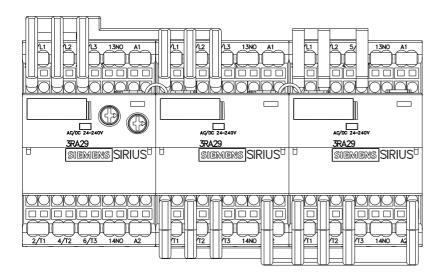
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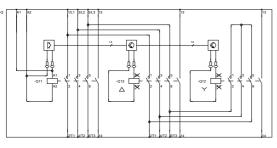
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA24178XF312AB0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA24178XF312AB0&lang=en









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STERNORREIECK-KOMB.

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