SIEMENS

Data sheet

3RA2417-8XH31-1BB4

STAR-DELTA COMB. WITH ASI AC3, 11KW/400V DC24V, 3-POLE SZ S00, SCREW 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		3RT2018-1BB41-0CC0			
• 2 of the supplied contactor		<u>3RT2018-1BB41</u>			
• 3 of the supplied contactor		<u>3RT2016-1BB41</u>			
 of the supplied RS assembly kit 		3RA2913-2BB1			
 of the supplied function module for 		3RA2712-1CA00			
communication					
General technical data:					
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			
Aain 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 Rated value	A	22
— at 400 V at ambient temperature 60 °C Rated value	А	20
 at AC-2 at 400 V Rated value 	А	25
● at AC-3		
— at 400 V Rated value	А	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		DC
Control supply voltage 1	-	
 for DC Rated value 	V	24
Operating range factor control supply voltage rated value of the magnet coil for DC		0.85 1.1
Design of the surge suppressor	_	with varistor
Closing power of the magnet coil for DC	W	5.9
Holding power of the magnet coil for DC	W	5.9
uxiliary 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	А	10
• at 60 V	А	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		screw and snap-on mounting onto 35 mm standard
Height		mounting rail
	mm	68
Width	mm mm	
Depth		68
Depth Required spacing	mm	68 135
Depth Required spacing • with side-by-side mounting	mm	68 135 145
Depth Required spacing	mm	68 135 145 6
Depth Required spacing • with side-by-side mounting	mm mm	68 135 145 6 0
Depth Required spacing • with side-by-side mounting — forwards	mm mm	68 135 145 6
Depth Required spacing • with side-by-side mounting — forwards — Backwards	mm mm mm	68 135 145 6 0
Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards	mm mm mm mm	68 135 145 6 0 6
Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards	mm mm mm mm mm	68 135 145 6 0 6 6
Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side	mm mm mm mm mm	68 135 145 6 0 6 6
Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side • for grounded parts	mm mm mm mm mm mm	68 135 145 6 0 6 6 6

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— 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/ Terminals:		
Type of electrical connection		
 for main current circuit 		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (0,5 4 mm²)
— finely stranded with core end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for main contacts 		2x (20 16), 2x (18 14)
 for auxiliary contacts 		
- single or multi-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 conductors for auxiliary contacts 		2x (20 16), 2x (18 14)
	_	
Safety related data:		4 000 000
B10 value with high demand rate acc. to SN 31920	_	1 000 000
Proportion of dangerous failures	0/	10
• 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 31920	FIT	100
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Protection against electrical shock		finger-safe
Mechanical data:		
Size of contactor		S00
Communication/ Protocol:		
Communication/ Protocol: Product function Bus communication		Yes
		Yes
Product function Bus communication		Yes
Product function Bus communication Protocol is supported		
Product function Bus communication Protocol is supported • AS-interface protocol		Yes

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 +60
 during storage 	°C	-55 +80

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	_	

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Appro	val	
EHC	EG-Konf.	Special Test Certificate	ABS	B U R E A U V E R I T A S	ĴÅ DNV DNV

Shipping App	oroval				other
GL	Lloyd's Register				Environmental Confirmations
GL	LRS	PRS	RINA	RMRS	

other

other

urther information

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

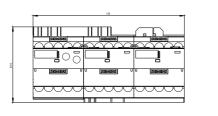
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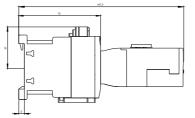
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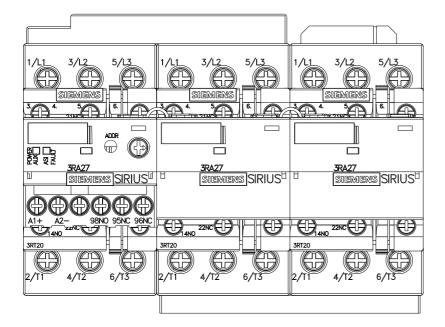
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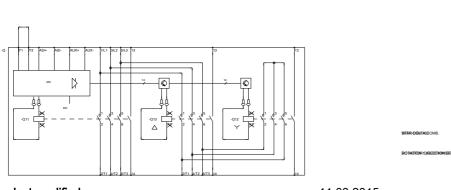
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA24178XH311BB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA24178XH311BB4&lang=en









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