SIEMENS

Data sheet

3RA2417-8XF31-1BB4

STAR-DELTA COMB. 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
 2 of the supplied contactor 	3RT2018-1BB41
 3 of the supplied contactor 	3RT2016-1BB41
 of the supplied RS assembly kit 	3RA2913-2BB1
 of the supplied function module for wye-delta circuits 	3RA2816-0EW20

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

Main circuit:		
Number of poles for main current circuit	3	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	Α	22
— at 400 V at ambient temperature 60 °C Rated value	Α	20
• at AC-2 at 400 V Rated value	Α	25
• at AC-3		
— at 400 V Rated value	Α	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
Closing power of the magnet coil for DC	W	5.9
Holding power of the magnet coil for DC	W	5.9
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	А	10	
Operating current of the auxiliary contacts at AC-15			
● at 230 V	Α	6	
● at 400 V	Α	3	
Operating current of the auxiliary contacts at DC-13			
● at 24 V	Α	10	
● at 60 V	Α	2	
● at 110 V	Α	1	
● at 220 V	Α	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 required		fuse gL/gG: 10 A	
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 mounting rail	
Height	mm	60	
Width		68	
— "	mm	135	
Depth			
•	mm	135	
Required spacing • with side-by-side mounting	mm	135	
Required spacing	mm	135	
Required spacing • with side-by-side mounting	mm mm	135 145	
Required spacing • with side-by-side mounting — forwards	mm mm	135 145 6	
Required spacing • with side-by-side mounting — forwards — Backwards	mm mm mm	135 145 6 0	
Required spacing • with side-by-side mounting — forwards — Backwards — upwards	mm mm mm mm	135 145 6 0 6	
Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards	mm mm mm mm mm	135 145 6 0 6 6	
Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side	mm mm mm mm mm	135 145 6 0 6 6	
Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side • for grounded parts	mm mm mm mm mm mm	135 145 6 0 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/ 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:		
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 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:	
Product function Bus communication	No
Protocol is supported	
AS-interface protocol	No

Ambient conditions:

Product function Control circuit interface with IO link

No

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

Certificates/ approvals:

General	Declaration of	Test	Shipping Approval
Product	Conformity	Certificates	
Approval			





Special Test Certificate







other

Shipping Approval



GL









Environmental Confirmations

other

other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

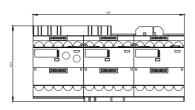
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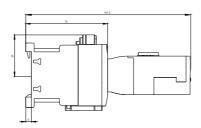
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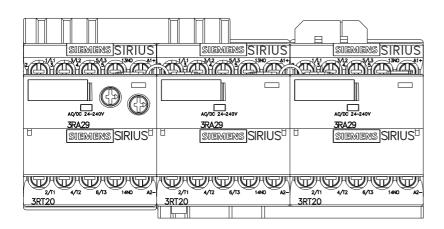
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA24178XF311BB4/all

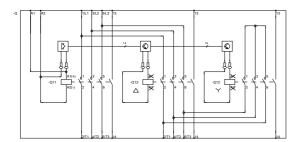
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA24178XF311BB4&lang=en







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BITAR-DEGICA COMB.

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