# **SIEMENS**

#### Data sheet

## 3RA2425-8XF32-1AG2

STAR-DELTA COMB. AC3, 15/18.5KW/400V AC110V, 50/60HZ, 3-POLE SZ S0, SCREW TERMINAL ELECTR. AND MECH. INTERLOCK 3NO+3NC INTEGR.



product brand name	SIRIUS
Product designation	star-delta (wye-delta) contactor assembly 3RA24
Manufacturer article number	
<ul> <li>1 of the supplied contactor</li> </ul>	<u>3RT2026-1AG20</u>
<ul> <li>2 of the supplied contactor</li> </ul>	<u>3RT2026-1AG20</u>
• 3 of the supplied contactor	<u>3RT2024-1AG20</u>
<ul> <li>of the supplied RS assembly kit</li> </ul>	3RA2923-2BB1
<ul> <li>of the supplied function module for wye-delta circuits</li> </ul>	3RA2816-0EW20

#### General technical data:

V	690			
_	3			
	12.5g / 5 ms and 7.8g / 10 ms			
kV	6			
	10 000 000			
	10 000 000			
	IP20			
	Q			
Main circuit:				
	3			

Number of NC contacts for main contacts		0		
Number of NO contacts for main contacts	_	3		
Operating voltage	-			
<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690		
Operating current	-			
● at AC-1				
— at 400 V at ambient temperature 40 °C	А	40		
Rated value				
— at 400 V at ambient temperature 60 °C	А	35		
Rated value				
• at AC-2 at 400 V Rated value	А	32		
• at AC-3				
— at 400 V Rated value	А	40		
Operating power				
• at AC-2 at 400 V Rated value	kW	15		
• at AC-4 at 400 V Rated value	kW	3.5		
Operating power				
• at AC-3				
— at 400 V Rated value	kW	18.5		
— at 500 V Rated value	kW	19		
— at 690 V Rated value	kW	19		
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	110		
• at 60 Hz Rated value	V	110		
Operating range factor control supply voltage rated value of the magnet coil with AC				
• at 50 Hz		0.8 1.1		
• at 60 Hz		0.8 1.1		
Auxiliary circuit:				
Number of NC contacts				
<ul> <li>for auxiliary contacts</li> </ul>				
— instantaneous contact		3		
— lagging switching		0		
Number of NO contacts				
<ul> <li>for auxiliary contacts</li> </ul>				
— instantaneous contact		3		
— leading contact		0		

Product expansion Auxiliary switch		No
Operating current of the auxiliary contacts at AC-12	A	10
maximum		
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		
<ul> <li>— with type of assignment 1 required</li> </ul>		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
— with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>		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	101
Width	mm	135
Depth	mm	171
Required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6
<ul><li>— at the side</li><li>for grounded parts</li></ul>	mm	6
	mm	6

— upwards	mm	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		
<ul> <li>for main current circuit</li> </ul>		screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
Type of connectable conductor cross-section		
<ul> <li>for main contacts</li> </ul>		
— single or multi-stranded		2x (1 2,5 mm²), 2x (2,5 10 mm²)
— finely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (16 12), 2x (14 8)
<ul> <li>for auxiliary contacts</li> </ul>		
— 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)
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (20 16), 2x (18 14)
Apparent pick-up power of the magnet coil with AC		
• at 50 Hz	V·A	65

Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	40
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	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		S0
Communication/ Protocol:		
Product function Bus communication		No
Protocol is supported		

Product function Control circuit interface with IO link	No	
2DA2425 8YE32 1AC2		

AS-interface protocol

No

Ambient conditions:				
Installation altitude at height above sea level	m	2 000		
maximum				
Ambient temperature				
<ul> <li>during operation</li> </ul>	°C	-25 +60		
<ul> <li>during storage</li> </ul>	°C	-55 +80		

## Certificates/ approvals:

General Product Approval	Declaration of Conformity	Test Certificates	Shipping App	proval	
EHC	EG-Konf.	Special Test Certificate	ABS	B U R E A U V E R I T A S	
Shipping App	roval				other
GL	Llovd's Register	PRS		RMRS	Environmental Confirmations

#### Further information

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

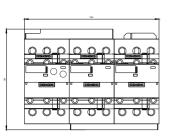
#### Industry Mall (Online ordering system) http://www.siemens.com/industrymall

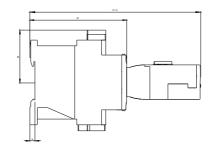
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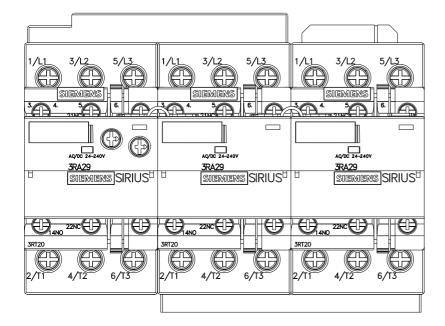
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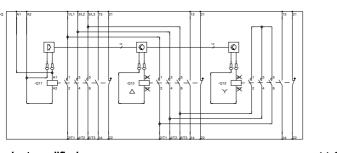
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA24258XF321AG2/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA24258XF321AG2&lang=en









SITAR-DEETGACCIME/18.5KW/400V

STERNOR DEEKS KOMSKW/400V

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