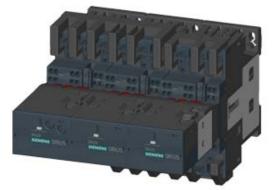
SIEMENS

Data sheet

3RA2425-8XF32-2AL2

STAR-DELTA COMB. AC3, 15/18.5KW/400V AC230V, 50/60HZ, 3-POLE SZ S0, SPRING-LOADED TERMINAL ELECTR. AND MECH. INTERLOCK 3NO+3NC INTEGR.



product brand name	SIRIUS
Product designation	star-delta (wye-delta) contactor assembly 3RA24
Manufacturer article number	
 1 of the supplied contactor 	<u>3RT2026-2AL20</u>
 2 of the supplied contactor 	3RT2026-2AL20
 3 of the supplied contactor 	3RT2024-2AL20
 of the supplied RS assembly kit 	3RA2923-2BB2
 of the supplied function module for wye-delta 	3RA2816-0EW20
circuits	

Canaral	technica	data
General		

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	-	
 at AC-3 Rated value maximum 	V	690
Operating current	_	
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	A	40
— at 400 V at ambient temperature 60 °C Rated value	A	35
• 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	230
• at 60 Hz Rated value	V	230
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		
 for auxiliary contacts 		
— instantaneous contact		3
— 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	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		
— with type of assignment 1 required		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
 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	114
Width	mm	135
Depth	mm	171
Required spacing		
 with side-by-side mounting 		
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6
 for grounded parts 		
	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		
 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 (1 10 mm²)
 finely stranded with core end processing 		2x (1 6 mm²)
 finely stranded without core end processing 		2x (1 6 mm²)
 for AWG conductors for main contacts 		1x (18 8)
 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 processing 		2x (0.5 1.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 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		
 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		S0
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

Certificates/ approvals

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval		
EHC	EG-Konf.	Special Test Certificate	ABS	B UR EAU VERITAS	

Shipping ApprovalotherGLCOLRSPRSImage: Colspan="3">Image: Colspan="3">ConfirmationsGLLRSPRSRINARINA

other ______

urther information

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

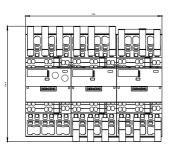
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

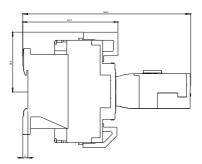
Cax online generator

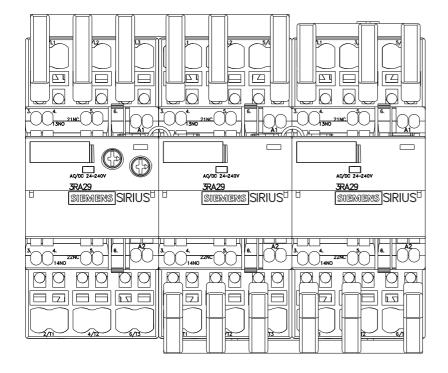
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA24258XF322AL2

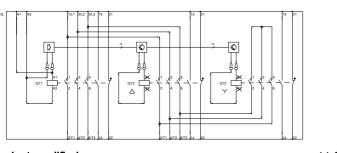
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA24258XF322AL2/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA24258XF322AL2&lang=en









SITAR-DEETGACCIME/18.5KW/400V

STERNOR DEEKS KOMSKW/400V

last modified:

11.03.2015