SIEMENS

Data sheet

3RA2435-8XF32-1AL2

STAR-DELTA (WYE-D.) COMBINATION AC3:37KW/400V 230V AC 50/60 HZ SIZE S2, SCREW CONNECTION ELECTR. AND MECH. INTERLOCK 3NO+3NC INTEGR.,



Figure similar product brand name SIRIUS Product designation star-delta (wye-delta) contactor assembly 3RA24 Manufacturer article number • 1 of the supplied contactor 3RT2035-1AL20 3RT2035-1AL20 • 2 of the supplied contactor • 3 of the supplied contactor 3RT2027-1AL20 3RA2934-2BB1 • of the supplied RS assembly kit • of the supplied function module for wye-delta 3RA2816-0EW20 circuits

Conorol	technica	I data:
General	lecinica	I Oala.

Insulation voltage			
 with degree of pollution 3 Rated value 	V	690	
Degree of pollution	-	3	
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	
		v	

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	60
— at 400 V at ambient temperature 60 °C Rated value	А	55
• at AC-2 at 400 V Rated value	А	80
● at AC-3		
— at 400 V Rated value	А	80
Operating power	-	
• at AC-2 at 400 V Rated value	kW	37
• at AC-4 at 400 V Rated value	kW	40
Operating power	-	
• at AC-3		
— at 400 V Rated value	kW	37
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		0.85 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 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 NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A
 — with type of assignment 2 required 		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 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 fixing
Height	mm	142
Width	mm	177.5
Depth	mm	223
Required spacing		
 with side-by-side mounting 		
— forwards	mm	10
— Backwards	mm	0
— upwards	mm	10
— downwards	mm	10
— at the side	mm	10
for grounded parts		
— forwards	mm	10
— Backwards	mm	0
— upwards	mm	10
— at the side	mm	10
— downwards	mm	10
 for live parts 		
— forwards	mm	10

— Backwards	mm	0
— upwards	mm	10
— downwards	mm	10
— at the side	mm	10

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 (1 35 mm²), 1x (1 50 mm²)
 — finely stranded with core end processing 		2x (1 25 mm²), 1x (1 35 mm²)
 for AWG conductors for main contacts 		2x (18 2), 1x (18 1)
 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)
Apparent pick-up power of the magnet coil with AC		
• at 50 Hz	V·A	210
● at 60 Hz	V·A	188

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 	%	73
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 when touched vertically from front acc. to IEC 60529
Mechanical data:		
Size of contactor		S2
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 maximum	m	2 000

Ambient temperature		
 during operation 	°C	-25 +60
• during storage	°C	-55 +80

Certificates/ approvals:					
	General Product	Declaration of	other		
	Approval	Conformity			
-	EAC	EG-Konf.	Environmental Confirmations		

Further information

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

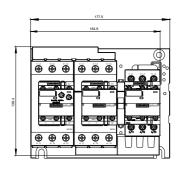
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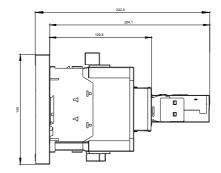
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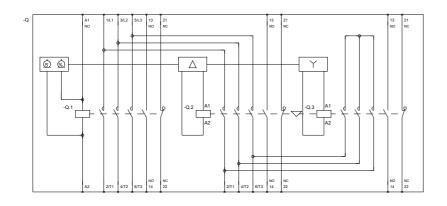
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA24358XF321AL2/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA24358XF321AL2&lang=en







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