# **SIEMENS**

#### Data sheet

### 3RA2435-8XF32-1NB3

STAR-DELTA (WYE-D.) COMBINATION AC3:37KW/400V 24-33V AC/DC SIZE S2, SCREW CONNECTION 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 3RT2035-1NB30 3RT2035-1NB30 • 2 of the supplied contactor • 3 of the supplied contactor 3RT2027-1NB30 3RA2934-2BB1 • of the supplied RS assembly kit • of the supplied function module for wye-delta 3RA2816-0EW20 circuits

Gonoral	technical	data
General	lecinica	uala.

-	
V	690
-	3
kV	6
_	
	10 000 000
	10 000 000
-	
	IP20
-	
	Q
	3
	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 Rated value	A	60
— at 400 V at ambient temperature 60 °C Rated value	A	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:		

Control circuly Control.		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage 1 with AC	-	
● at 50 Hz	V	20 33
• at 60 Hz	V	20 33
Control supply voltage 1	_	
• for DC	V	20 33
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
Operating range factor control supply voltage rated		0.8 1.1
value of the magnet coil for DC		
Closing power of the magnet coil for DC	W	23
Holding power of the magnet coil for DC	W	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
		0
— leading contact      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
UL/CSA ratings:		
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
— with type of assignment 1 required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A
<ul> <li>— with type of assignment 2 required</li> </ul>		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>		fuse gL/gG: 10 A
Installation/ 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		
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	mm	10
— Backwards	mm	0
— upwards	mm	10
— downwards	mm	10
— at the side	mm	10
<ul> <li>for grounded parts</li> </ul>		
— forwards	mm	10

mm	0
mm	10
mm	10
mm	10
mm	10
mm	0
mm	10
mm	10
mm	10
	mm mm mm mm mm mm

## 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	-	
• 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)
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (18 2), 1x (18 1)
<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	40
• at 60 Hz	V·A	40

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>	%	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

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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		
<ul> <li>during operation</li> </ul>	°C	-25 +60
<ul> <li>during storage</li> </ul>	°C	-55 +80

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

#### Further information

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

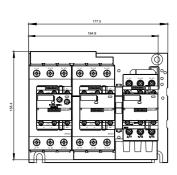
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

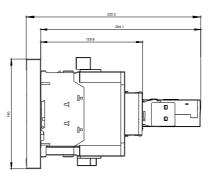
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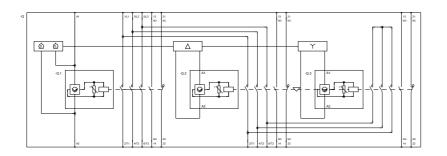
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA24358XF321NB3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA24358XF321NB3/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=3RA24358XF321NB3&lang=en







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