# **SIEMENS**

### Data sheet

## 3RA2437-8XF32-1NB3

STAR-DELTA (WYE-D.) COMBINATION AC3:55KW/400V 24-33V AC/DC SIZE S2, SCREW CONNECTION ELECTR. AND MECH. INTERLOCK 3NO+3NC INTEGR.,



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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>	3RT2037-1NB30
<ul> <li>2 of the supplied contactor</li> </ul>	3RT2037-1NB30
<ul> <li>3 of the supplied contactor</li> </ul>	3RT2035-1NB30
<ul> <li>of the supplied RS assembly kit</li> </ul>	3RA2934-2BB1
<ul> <li>of the supplied function module for wye-delta circuits</li> </ul>	3RA2816-0EW20

General technical data:		
Insulation voltage		
<ul> <li>with degree of pollution 3 Rated value</li> </ul>	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
<ul> <li>of the contactor typical</li> </ul>		10 000 000
<ul> <li>of the contactor with added auxiliary switch</li> </ul>		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	

	3
V	690
Α	80
Α	70
Α	115
Α	115
kW	55
kW	48.5
kW	55
1/h	700
1/h	1 500
	AC/DC
	AC/DC
V	AC/DC 20 33
V	
	20 33
	20 33
V	20 33 20 33
V	20 33 20 33
V	20 33 20 33 20 33
V	20 33 20 33 20 33
V	20 33 20 33 20 33 0.8 1.1 0.8 1.1
V	20 33 20 33 20 33 0.8 1.1 0.8 1.1
V	20 33 20 33 20 33 0.8 1.1 0.8 1.1
V	20 33 20 33 20 33 0.8 1.1 0.8 1.1
V	20 33 20 33 20 33 0.8 1.1 0.8 1.1
V	20 33 20 33 20 33 0.8 1.1 0.8 1.1
V	20 33 20 33 20 33 0.8 1.1 0.8 1.1 23 1
	A A A kW kW

for auxiliary contacts		
— instantaneous contact		3
— leading contact		0
Product expansion Auxiliary switch		No
Operating current of the auxiliary contacts at AC-12	Α	10
maximum	, ,	
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
UL/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 NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A
— with type of assignment 2 required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
• for short-circuit protection of the auxiliary switch required		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

for grounded partsforwards

10

10

mm

mm

— 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
<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
Type of connectable conductor cross-section		
• for main contacts		
<ul><li>— single or multi-stranded</li></ul>		2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		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>		
<ul><li>— single or multi-stranded</li></ul>		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		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	

Frotocoria aupported		
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		
<ul><li>during operation</li></ul>	°C	-25 <b>+</b> 60

### Certificates/ approvals

• during storage

Protocol is supported

General Product	Declaration of	other
Approval	Conformity	

 $^{\circ}C$ 

EAC



**Environmental Confirmations** 

-55 ... +80

#### Further information

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

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

Industry Mall (Online ordering system)

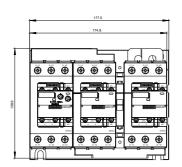
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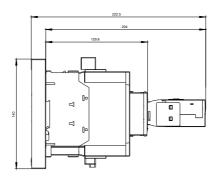
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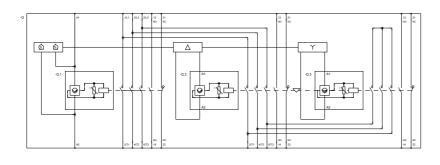
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA24378XF321NB3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA24378XF321NB3/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=3RA24378XF321NB3&lang=en







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