SIEMENS

Product 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.



General technical data:			
product brand name		SIRIUS	
Product function		wye-delta combination	
Size of contactor		S2	
Protection class IP / on the front		IP20	
Degree of pollution		3	
Insulation voltage / with degree of pollution 3 / Rated value	V	690	
Installation altitude / at height above sea level / maximum	m	2,000	
Ambient temperature / during storage	°C	-55 +80	
Ambient temperature / during operation	°C	-25 +60	
Surge voltage resistance / Rated value	kV	6	
Active power loss / per conductor / typical	W	2.2	
Manufacturer article number			
 of the supplied function module for wye-delta circuits 		3RA2816-0EW20	
 1 / of the supplied contactor 		3RT2035-1NB30	
2 / of the supplied contactor		3RT2035-1NB30	
• 3 / of the supplied contactor		3RT2027-1NB30	
of the supplied RS assembly kit		3RA2934-2BB1	
Mechanical service life (switching cycles)			
of the contactor / typical		10,000,000	

of the contactor with added auxiliary switch block / typical		10,000,000
Communication/ Protocol:		
Product function		
Bus communication		No
Control circuit interface with IO link		No
Protocol / is supported / AS-interface protocol		No
Main circuit:		
Number of poles / for main current 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 	А	60
 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-3		
• at 400 V / Rated value	kW	37
• at AC-4 / at 400 V / Rated value	kW	40
No-load switching frequency	1/h	1,500
Operating frequency		
• at AC-1 / maximum	1/h	1,000
• at AC-2 / maximum	1/h	750
• at AC-3 / maximum	1/h	1,000
• at AC-4 / maximum	1/h	300
Control circuit/ Control:		
Type of voltage / of the control supply voltage		AC/DC
Control supply voltage / 1		
• for DC	V	20 33
• with AC		
• at 50 Hz	V	20 33
• with AC		
• at 60 Hz	V	20 33
Operating range factor control supply voltage rated value / of the magnet coil		

• with AC / at 50 Hz		0.8 1.1
• with AC / at 60 Hz		0.8 1.1
• for DC	_	0.8 1.1
Apparent pick-up power / of the magnet coil / with AC		
• at 50 Hz	V·A	40
• at 60 Hz	V·A	40
Inductive power factor / with closing power of the coil		
• at 50 Hz		0.64
• at 60 Hz		0.5
Apparent holding power / of the magnet coil / with AC		
• at 50 Hz	V·A	2
• at 60 Hz	V·A	2
Inductive power factor / with the holding power of the coil		
• at 50 Hz		0.36
• at 60 Hz		0.39
Closing power / of the magnet coil / for DC	W	23
Holding power / of the magnet coil / for DC	W	1
Auxiliary circuit:		
Product expansion / Auxiliary switch		No
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
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
Operating current / of the auxiliary contacts	_	
• at AC-12 / maximum	А	10
• at AC-15		
• at 230 V	А	6
• at 400 V	А	3
• at DC-12		
• at 48 V	А	6
• at 60 V	А	6
• at 110 V	А	3
• at 220 V	А	1
• at DC-13		
• at 24 V	А	10
• at 48 V	А	2

• at 60 V	А	2
• at 110 V	A	-
• at 220 V	A	0.3
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
• 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
Width	mm	177.5
Height	mm	142
Depth	mm	223
Connections/ terminals:		
Design of the 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)
Type of connectable conductor cross-section		
 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)

Certificates/ approvals:

Declaration of Conformity



UL/CSA ratings:

Contact rating / of the auxiliary contacts / acc. to UL

A600 / Q600

Safety related data:				
	1,000,000			
-				
FIT	100			
-				
%	40			
%	73			
-				
а	20			
	%			

Further information:

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

Industry Mall (Online ordering system)

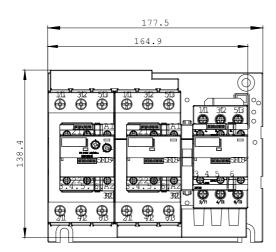
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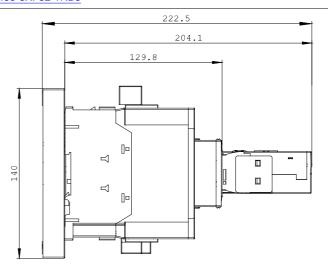
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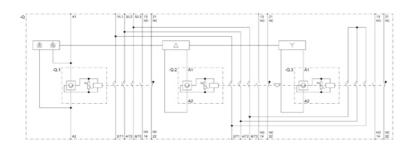
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2435-8XF32-1NB3/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2435-8XF32-1NB3







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