SIEMENS

Data sheet

3RA2444-8XF32-1AP0

STAR-DELTA CONT. ASSY. AC3:55KW/400V 230 V AC 50/60 HZ SIZE S3, SCREW TERMINALS ELEC. AND MECH. INTERLO. 3NO+3NC



Figure similar

Product brand name	SIRIUS			
Product designation	Contactor assembly for star-delta (wye-delta) start			
Product type designation	3RA24			
Manufacturer's article number				
 1 of the supplied contactor 	<u>3RT2045-1AP00</u>			
 2 of the supplied contactor 	<u>3RT2045-1AP00</u>			
 3 of the supplied contactor 	3RT2035-1AP00			
 of the supplied RS assembly kit 	<u>3RA2943-2C</u>			
 of the supplied function module for wye-delta 	3RA2816-0EW20			
circuits				
General technical data				
Size of contactor	S3			
Product extension				
Auxiliary switch	No			
Insulation voltage				
 with degree of pollution 3 rated value 	690 V			
Degree of pollution	3			

Surge voltage resistance rated value	6 kV			
Protection class IP				
• on the front	IP20			
Shock resistance at rectangular impulse				
● at AC	6.7 g / 5 ms, 4.0 g / 10 ms			
Shock resistance with sine pulse				
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms			
Mechanical service life (switching cycles)				
 of contactor typical 	10 000 000			
 of the contactor with added auxiliary switch 	10 000 000			
block typical				
Equipment marking				
• acc. to DIN EN 81346-2	Q			
Ambient conditions				
Installation altitude at height above sea level				
• maximum	2 000 m			
Ambient temperature				
 during operation 	-25 +60 °C			
 during storage 	-55 +80 °C			
Main circuit Number of poles for main current circuit	3			
Number of NO contacts for main contacts	3			
Number of NC contacts for main contacts	0			
Operating voltage				
 at AC-3 rated value maximum 	690 V			
Operating current				
● at AC-1 at 400 V				
— at ambient temperature 40 °C rated value	125 A			
— at ambient temperature 60 °C rated value	105 A			
Operating frequency				
• at AC-1 maximum	900 1/h			
• at AC-2 maximum	400 1/h			
• at AC-3 maximum	1 000 1/h			
● at AC-4 maximum	300 1/h			
Control circuit/ Control Type of voltage of the control supply voltage	AC			
Control supply voltage 1 at AC				
• at 50 Hz rated value	230 V			
Operating range factor control supply voltage rated				
value of magnet coil at AC				
value of magnet coll at AC				
• at 50 Hz	0.8 1.1			

● at 60 Hz	0.85 1.1			
Apparent pick-up power of magnet coil at AC				
• at 50 Hz	348 V·A			
• at 60 Hz	296 V·A			
Inductive power factor with closing power of the coil				
• at 50 Hz	0.62			
• at 60 Hz	0.55			
Apparent holding power of magnet coil at AC				
• at 50 Hz	25 V·A			
• at 60 Hz	18 V·A			
Inductive power factor with the holding power of the				
coil				
● at 50 Hz	0.35			
• at 60 Hz	0.41			
Auxiliary circuit				
Number of NC contacts				
 for auxiliary contacts 				
— instantaneous contact	3			
Number of NO contacts				
 for auxiliary contacts 				
— instantaneous contact	3			
Operating current of auxiliary contacts at AC-12 maximum	10 A			
Operating current of auxiliary contacts at AC-15				
• at 230 V	6 A			
• at 400 V	3 A			
Operating current of auxiliary contacts at DC-13				
• at 24 V	10 A			
• at 60 V	2 A			
• at 110 V	1 A			
● at 220 V	0.3 A			
UL/CSA ratings				
Contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
Design of the fuse link				
 for short-circuit protection of the main circuit 				
- with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A			
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A			
 for short-circuit protection of the auxiliary switch required 	fuse 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 and snap-on mounting onto 35 mm standard mounting rail		
Height	180 mm		
Width	220 mm		
Depth Beguired encoing	244 mm		
Required spacing			
with side-by-side mounting	10 mm		
— forwards	10 mm		
— Backwards	0 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
for grounded parts			
— forwards	10 mm		
— Backwards	0 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
 for live parts 			
— forwards	10 mm		
— Backwards	0 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
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-sections			
 for main contacts 			
— single or multi-stranded	2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)		
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)		
 finely stranded without core end processing 	2x (10 35 mm²), 1x (10 50 mm²)		
 at AWG conductors for main contacts 	2x (10 1/0), 1x (10 2/0)		
Type of connectable conductor cross-sections			
 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)		
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)		

Safety related data					
B10 value					
 with high demand rate acc. to SN 31 	920	1 000 000			
Proportion of dangerous failures					
• with low demand rate acc. to SN 319	920	40 %			
 with high demand rate acc. to SN 31920 		73 %			
Failure rate [FIT]					
• with low demand rate acc. to SN 319	920	100 FIT			
T1 value for proof test interval or service li	fe acc. to	20 y			
IEC 61508					
Communication/ Protocol					
Product function Bus communication		No			
Protocol is supported					
 AS-interface protocol 		No			
Product function Control circuit interface w	vith IO link	No			
Certificates/approvals	Marina (O		_		
GeneralDeclaration ofProductConformity	Marine / Shipping				
Product Conformity Approval					
Αμμισναί	NUVE				
ΓΠΓ ΓΓ		GI	Lloyd's		
			Kegister		
EG-Konf.	VERITAS	GL	LRS	RMRS	
Marine / other					
Shipping					



Confirmation

Further information

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

Industry Mall (Online ordering system)

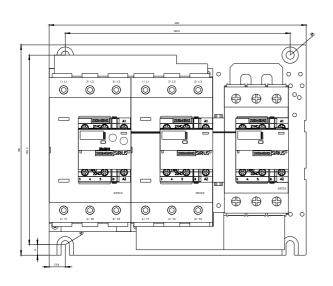
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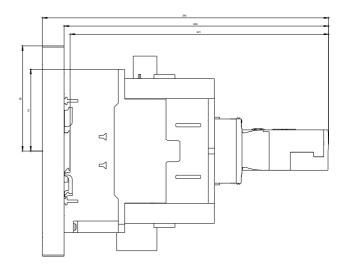
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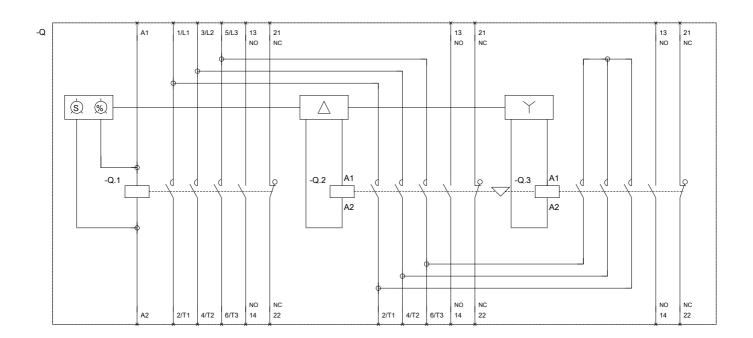
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2444-8XF32-1AP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2444-8XF32-1AP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2444-8XF32-1AP0&lang=en







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