SIEMENS

Data sheet

3RA2426-8XF32-1AC2

STAR-DELTA COMB. AC3, 22KW/400V AC24V, 50/60HZ, 3-POLE, SZ S0, SCREW TERMINAL ELECTR. AND MECH. INTERLOCK 3NO+3NC INTEGR.



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>3RT2027-1AC20</u>
 2 of the supplied contactor 	<u>3RT2027-1AC20</u>
 3 of the supplied contactor 	<u>3RT2026-1AC20</u>
 of the supplied RS assembly kit 	<u>3RA2923-2BB1</u>
 of the supplied function module for wye-delta 	3RA2816-0EW20
circuits	
General technical data	
Size of contactor	S0
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	

Shock resistance at rectangular impulse 8,3g / 5 ms, 5,3g / 10 ms • at DC 10g / 5 ms, 7,5g / 10 ms Shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms • at DC 10 000 000 • of contactor typical 10 000 000 • of contactor with added auxiliary switch block typical 10 000 000 • at contactor with added auxiliary switch block typical 10 000 000 • at contactor with added auxiliary switch block typical 0 • acc. to DIN EN 81346-2 Q Vmbient conditions -25 +60 °C Ambient temperature -25 +80 °C • during operation -25 +80 °C Aumber of poles for main current circuit 3 Number of NC contacts for main contacts 0 Operating voltage 690 V • at AC-3 rated value maximum 690 V Operating gurrent 690 V • at AC-3 rated value 50 A - at ambient temperature 40 °C rated value 50 A - at ambient temperature 60 °C rated value 42 A • at AC-3 rated value 50 A <th>• on the front</th> <th>IP20</th>	• on the front	IP20
• at AC8,3g / 5 ms, 5,3g / 10 ms• at DC10g / 5 ms, 7,5g / 10 msShock resistance with sine pulse13,5g / 5 ms, 8,3g / 10 ms• at AC13,5g / 5 ms, 8,3g / 10 ms• at DC15g / 5 ms, 10g / 10 msMechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000Equipment marking • acc. to DIN EN 81346-2QVmblent conditions-25 +60 °CAmbient temperature • during operation-25 +60 °C• during storage-55 +80 °CVanber of Poles for main current circuit3Number of NC contacts for main contacts3Number of NC contacts for main contacts0Operating voltage • at AC-3 rated value maximum50 A• at AC-3 at 400 V - at ambient temperature 40 °C rated value • at AC-3 rated value50 A• at AC-3 rated value50 A- at ambient temperature 60 °C rated value • at AC-3 rated value50 A• at AC-3 rated value50 A- at ambient temperature 60 °C rated value • at AC-3 rated value50 A- at 400 V rated value50 A- at 400 V rated value50 A		
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Shock resistance with sine pulse Image: Shock resistance with sine pulse • at AC 13,5g / 5 ms, 8,3g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms Mechanical service life (switching cycles) 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • acc. to DIN EN 81346-2 Q Ambient conditions		
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• at AC-3 — at 400 V rated value 50 A 1 500 1/h		
— at 400 V rated value 50 A No-load switching frequency 1 500 1/h		
No-load switching frequency 1 500 1/h		50 A
Uperating trequency	Operating frequency	
• at AC-1 maximum 1 000 1/h		1 000 1/h
• at AC-2 maximum 1 000 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		AC
Control supply voltage 1 at AC		
• at 50 Hz rated value 24 V	• at 50 Hz rated value	
• at 60 Hz rated value 24 V	• at 60 Hz rated value	24 V

Operating range factor control supply voltage rated value of magnet coil at AC					
• at 50 Hz	0.8 1.1				
• at 60 Hz	0.8 1.1				
Apparent pick-up power of magnet coil at AC					
• at 50 Hz	65 V·A				
Inductive power factor with closing power of the coil					
• at 50 Hz	0.82				
Apparent holding power of magnet coil at AC					
• at 50 Hz	8.5 V·A				
Inductive power factor with the holding power of the coil					
• at 50 Hz	0.25				
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				
Contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles				
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	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A				
— with type of assignment 2 required	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 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				
Mounting type	surface screw and snap-on mounting onto 35 mm standard mounting rail				
Height	101 mm				
Width	135 mm				
Depth	171 mm				
Required spacing	-				
 with side-by-side mounting 					
— forwards	6 mm				
— Backwards	0 mm				
— upwards	6 mm				
— downwards	6 mm				
— at the side	6 mm				
• for grounded parts					
— forwards	6 mm				
— Backwards	0 mm				
— upwards	6 mm				
— at the side	6 mm				
— downwards	6 mm				
• for live parts					
— forwards	6 mm				
— Backwards	0 mm				
— upwards	6 mm				
— downwards	6 mm				
— at the side	6 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					
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)				
— single or multi-stranded	2x (1 2,5 mm²), 2x (2,5 10 mm²)				
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²				
 at AWG conductors for main contacts 	2x (16 12), 2x (14 8)				
Type of connectable conductor cross-sections					

- for auxiliary contacts
- single or multi-stranded
 finely stranded with core end processing
 at AWG conductors for auxiliary contacts
 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)
 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2,5 mm²)

LRS PRS Image: Second sec	afety related data							
Proportion of dangerous failures 40 % • with low demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 75 % Failure rate [FIT] • with low demand rate acc. to SN 31920 100 FIT • with low demand rate acc. to SN 31920 100 FIT • with low demand rate acc. to SN 31920 100 FIT • with low demand rate acc. to SN 31920 100 FIT • with low demand rate acc. to SN 31920 100 FIT • with low demand rate acc. to SN 31920 100 FIT • with low demand rate acc. to SN 31920 100 FIT • Type of test interval or service life acc. to IEC 61508 20 y communication/ Product function Bus communication No Product function Bus communication of Product Approvals Test Certificates Marine / Shipping General Approval Declaration of Conformity Certificates Special Test Certificates ABS Guide Certificates Guide Certificates Marine / Shipping Image: State	310 value							
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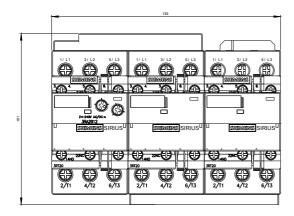
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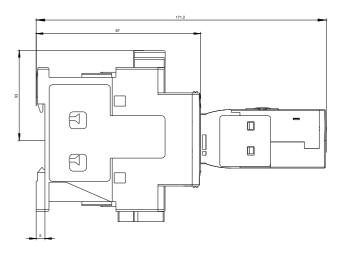
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2426-8XF32-1AC2

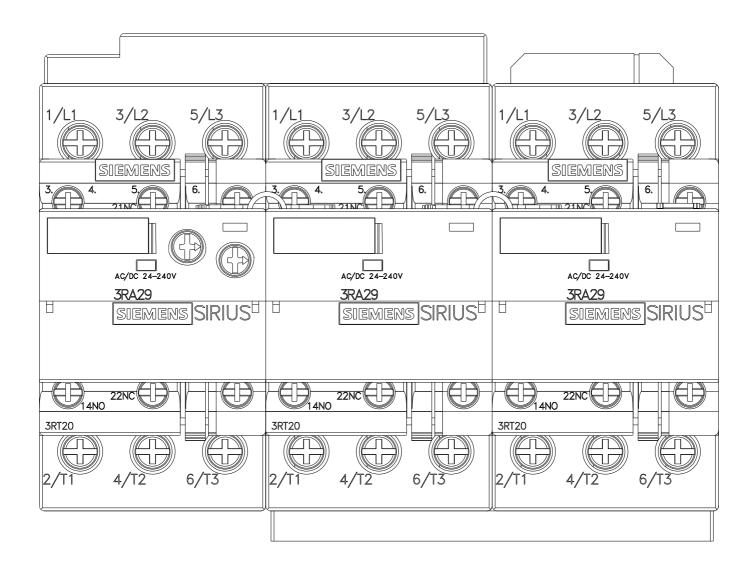
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2426-8XF32-1AC2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2426-8XF32-1AC2

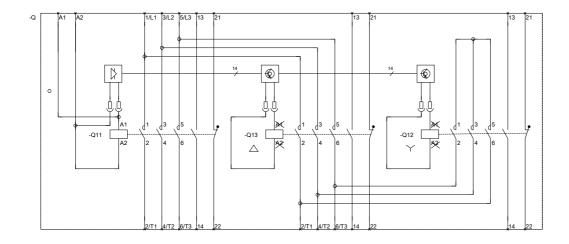
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2426-8XF32-1AC2&lang=en







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last modified:

07/14/2017