SIEMENS

Data sheet

3RA2425-8XF32-1AG2

Contactor assembly for star-delta (wye-delta) start AC-3, 15/18 kW/400 V, 110 V AC 50/60 Hz, 3-pole Size S0, screw terminals electrical and mechanical interlock 3 NO + 3 NC integrated



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>3RT2026-1AG20</u>		
 2 of the supplied contactor 	<u>3RT2026-1AG20</u>		
 3 of the supplied contactor 	<u>3RT2024-1AG20</u>		
 of the supplied RS assembly kit 	<u>3RA2923-2BB1</u>		
 of the supplied function module for wye-delta circuits 	<u>3RA2816-0EW20</u>		
General technical data			
size of contactor	SO		
product extension auxiliary switch	No		
shock resistance at rectangular impulse			
• at AC	7,5g / 5 ms, 4,7g / 10 ms		
• at DC	10g / 5 ms, 7,5g / 10 ms		
shock resistance with sine pulse			
• at AC	11,8g / 5 ms, 7,4g / 10 ms		
• at DC	15g / 5 ms, 10g / 10 ms		
mechanical service life (operating cycles)			
 of contactor typical 	10 000 000		
 of the contactor with added auxiliary switch block typical 	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
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		
operational current			
• at AC-3			
— at 400 V rated value	40 A		
operating power			
• at AC-3			
— at 400 V rated value	15 kW		

at 500 V rated value	19 kW		
— at 500 V rated value — at 690 V rated value	19 kW		
operating frequency	12 144		
e at AC-3 maximum	1 000 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	110 V		
at 50 Hz rated value at 60 Hz rated value	110 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	164 VA		
• at 60 Hz	160 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.72		
• at 60 Hz	0.74		
apparent holding power of magnet coil at AC			
• at 50 Hz	23 VA		
• at 60 Hz	19 VA		
inductive power factor with the holding power of the coil			
• at 50 Hz	0.25		
• at 60 Hz	0.28		
Auxiliary circuit			
number of NC contacts for auxiliary contacts			
instantaneous contact	3		
number of NO contacts for auxiliary contacts			
instantaneous contact	3		
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles		
UL/CSA ratings			
UL/CSA ratings contact rating of auxiliary contacts according to UL	< 1 error per 100 million operating cycles A600 / Q600		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection			
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link			
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	A600 / Q600		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
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UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 101 mm		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 101 mm 135 mm		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 101 mm 135 mm		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 101 mm 135 mm		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 101 mm 135 mm 171 mm 6 mm 0 mm		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 101 mm 135 mm 171 mm 6 mm 6 mm		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth — forwards — backwards — upwards — downwards	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 101 mm 135 mm 171 mm 6 mm 6 mm 6 mm		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 101 mm 135 mm 171 mm 6 mm 6 mm		
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 101 mm 135 mm 171 mm 6 mm 6 mm 6 mm 6 mm		
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			0			
— backwards			0 mm			
— upwards			6 mm			
- downwards	;		6 mm			
— at the side			6 mm			
Connections/ Terminals						
type of electrical conr						
 for main current 	circuit		screw-type terminals			
 for auxiliary and 			screw-type terminals			
 at contactor for a 	uxiliary contacts		Screw-type terminals			
 of magnet coil 			Screw-type terminals			
51	nductor cross-sections for main o	contacts				
 solid 				2x (1 2.5 mm²), 2x (2.5 10 mm²)		
 solid or stranded 				2x (1 2.5 mm²), 2x (2.5 10 mm²)		
 finely stranded w 	vith core end processing		2x (1 2.5 mm²), 2x (2.5 6	6 mm²), 1x 10 mm²		
type of connectable c	onductor cross-sections					
 for auxiliary cont 	acts					
— solid or stra			2x (0.5 1.5 mm²), 2x (0.75			
— finely stran	ded with core end processing		2x (0.5 1.5 mm²), 2x (0.75	2.5 mm²)		
	for auxiliary contacts		2x (20 16), 2x (18 14)	2x (20 16), 2x (18 14)		
Safety related data						
B10 value with high der	mand rate according to SN 3192	0	1 000 000			
proportion of dangero	ous failures					
 with low demand 	rate according to SN 31920		40 %			
 with high deman 	d rate according to SN 31920		75 %			
failure rate [FIT] with lo	w demand rate according to SN	31920	100 FIT			
T1 value for proof test i 61508	nterval or service life according t	to IEC	20 a			
protection class IP on the front according to IEC 60529		IP20				
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front				
Communication/ Protoc	ol					
product function bus communication		No				
protocol is supported A	S-Interface protocol		No			
product function contro	I circuit interface with IO link	No				
Certificates/ approvals						
General Product App	roval Dec	laration of	Conformity	Test Certificates	Marine / Shipping	
Confirmation	FAC	CE	UK CA	<u>Special Test Certific-</u> <u>ate</u>		
	LIIL	EG-Konf.	LH		ABS	
Marine / Shipping						
	选卷	Llovd's				
	DNV	Kegister				
BUREAU	DNV	LRS	PRS	RINA	RMRS	
VERITAS						
other	Railway					
Confirmation	Vibration and Charle					
Confirmation	Vibration and Shock					
Confirmation	Vibration and Shock					
<u>Confirmation</u>	Vibration and Shock					

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2425-8XF32-1AG2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2425-8XF32-1AG2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

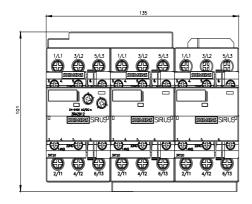
https://support.industry.siemens.com/cs/ww/en/ps/3RA2425-8XF32 -1AG2

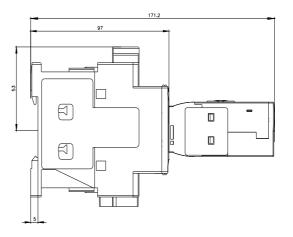
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2425-8XF32-1AG2&lang=en

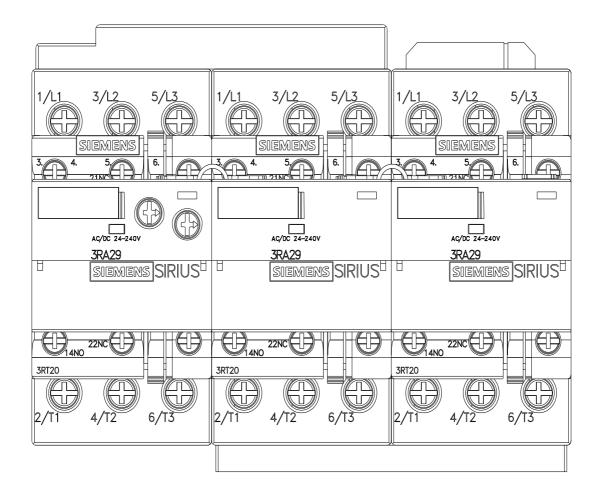
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2425-8XF32-1AG2/char

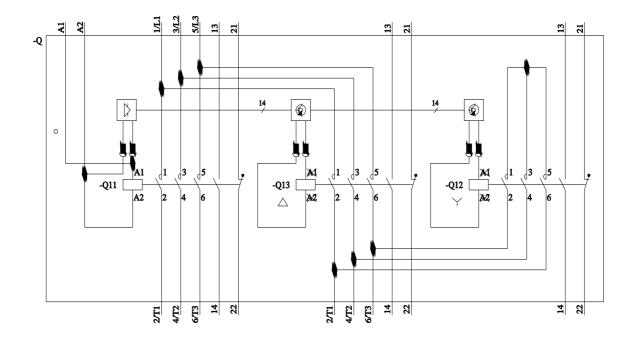
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=









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