## SIEMENS

## Data sheet

## 3RA2425-8XF32-1AC2

Contactor assembly for star-delta (wye-delta) start AC-3, 15/18.5 kW/400 V, 24 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	
<ul> <li>1 of the supplied contactor</li> </ul>	<u>3RT2026-1AC20</u>
<ul> <li>2 of the supplied contactor</li> </ul>	<u>3RT2026-1AC20</u>
<ul> <li>3 of the supplied contactor</li> </ul>	<u>3RT2024-1AC20</u>
<ul> <li>of the supplied RS assembly kit</li> </ul>	<u>3RA2923-2BB1</u>
<ul> <li>of the supplied function module for wye-delta circuits</li> </ul>	<u>3RA2816-0EW20</u>
General technical data	
size of contactor	S0
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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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	
<ul> <li>at AC-3 rated value maximum</li> </ul>	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	10 104
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	24 V
at 60 Hz rated value	24 V 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	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	
contact rating of auxiliary contacts according to UL	A600 / Q600
contact rating of auxiliary contacts according to UL	
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
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
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
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
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
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 fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and
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
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 screw and snap-on mounting onto 35 mm DIN rail
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
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
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
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	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
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
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	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
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
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 171 mm 6 mm 0 mm
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
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         - 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 6 mm 6 mm
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beeluuerd			0			
— backward	5		0 mm			
— upwards	1-			6 mm		
— downward			6 mm			
— at the side	-		6 mm			
Connections/ Termina						
type of electrical co						
• for main curren			screw-type terminals			
<ul> <li>for auxiliary and</li> </ul>			screw-type terminals			
	auxiliary contacts		Screw-type terminals			
of magnet coil		• • •	Screw-type terminals			
	onductor cross-sections for ma	ain contacts				
• solid				2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )		
solid or strande				2x (1 2.5 mm²), 2x (2.5 10 mm²)		
	with core end processing		2x (1 2.5 mm²), 2x (2.5	6 mm²), 1x 10 mm²		
	conductor cross-sections					
<ul> <li>for auxiliary cor</li> </ul>						
— solid or st			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
-	nded with core end processing	9	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
	s for auxiliary contacts		2x (20 16), 2x (18 14)			
Safety related data						
B10 value with high d	emand rate according to SN 3	1920	1 000 000			
proportion of dange						
	nd rate according to SN 31920		40 %			
	nd rate according to SN 3192		75 %			
	ow demand rate according to		100 FIT			
T1 value for proof tes 61508	t interval or service life accord	ing to IEC	20 a			
protection class IP of	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/ Prote	lood					
product function bus communication			No			
protocol is supported	AS-Interface protocol		No			
product function contr	product function control circuit interface with IO link		No	No		
Certificates/ approvals	S					
General Product Ap	proval	Declaration of	Conformity	Test Certificates	Marine / Shipping	
<u>Confirmation</u>	EHC	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping						
BUREAU VERITAS		Lloyds Register urs	PRS	RINA	RMRS R	
other	Railway					
<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=3RA2425-8XF32-1AC2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2425-8XF32-1AC2

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

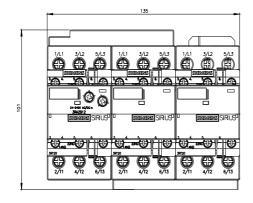
https://support.industry.siemens.com/cs/ww/en/ps/3RA2425-8XF32-1AC2

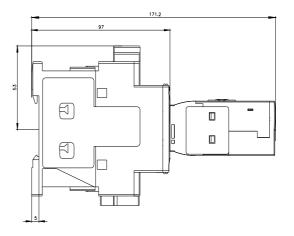
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2425-8XF32-1AC2&lang=en

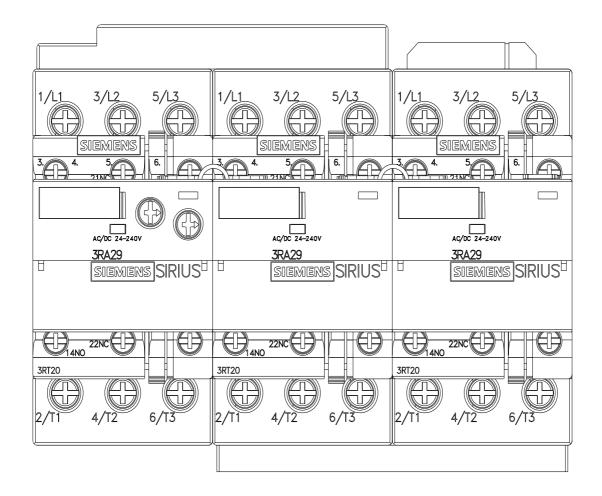
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2425-8XF32-1AC2/char

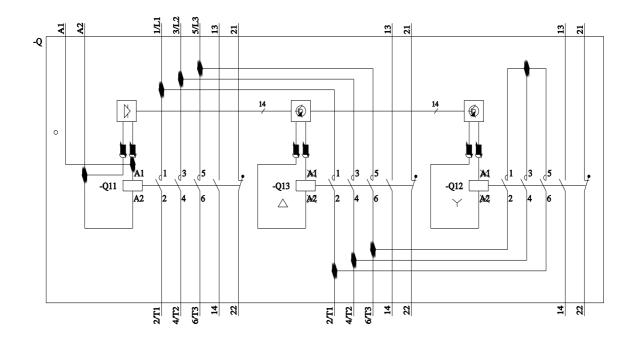
Further characteristics (e.g. electrical endurance, switching frequency)

3RA2425-8XF32-1AC2&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=









last modified:

11/21/2022 🖸

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