Data sheet

3RA2435-8XF32-1AC2

Contactor assembly for star-delta (wye-delta) start AC-3, 37 kW/400 V, 24 V AC 50/60 Hz, 3-pole, size S2 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	3RT2035-1AC20		
2 of the supplied contactor	3RT2035-1AC20		
3 of the supplied contactor	3RT2027-1AC20		
 of the supplied RS assembly kit 	3RA2933-2C		
of the supplied function module for wye-delta circuits	3RA2816-0EW20		
General technical data			
size of contactor	S2		
product extension auxiliary switch	No		
shock resistance at rectangular impulse			
• at AC	11.8g / 5 ms, 7.4g / 10 ms		
shock resistance with sine pulse			
• at AC	18.5g / 5 ms, 11.6g / 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)	10/01/2014		
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	80 A		
operating power			
• at AC-3			
— at 400 V rated value	37 kW		
operating frequency			
• 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		
operating range factor control supply voltage rated value of			
magnet coil 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	422 VA		
• at 60 Hz	378 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.69		
• at 60 Hz	0.65		
apparent holding power of magnet coil at AC			
● at 50 Hz	36.4 VA		
• at 60 Hz	35 VA		
inductive power factor with the holding power of the coil			
● at 50 Hz	0.36		
• at 60 Hz	0.39		
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		
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: 160 A		
	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A		
 — with type of assignment 2 required 	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A		
— with type of assignment 2 requiredfor short-circuit protection of the auxiliary switch required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A fuse gG: 10 A		
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	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 fixing		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	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 fixing 142 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	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 fixing 142 mm 177.5 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	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 fixing 142 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	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 fixing 142 mm 177.5 mm		
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	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 fixing 142 mm 177.5 mm 223 mm		
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	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 fixing 142 mm 177.5 mm 223 mm		
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	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 fixing 142 mm 177.5 mm 223 mm		
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	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 fixing 142 mm 177.5 mm 223 mm 10 mm 0 mm 10 mm		
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	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 fixing 142 mm 177.5 mm 223 mm 10 mm 0 mm 10 mm		
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	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 fixing 142 mm 177.5 mm 223 mm 10 mm 0 mm 10 mm		
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 for grounded parts	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 fixing 142 mm 177.5 mm 223 mm 10 mm 10 mm 10 mm 10 mm		
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 for grounded parts — forwards	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 fixing 142 mm 177.5 mm 223 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
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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 for grounded parts — forwards — backwards — upwards — at the side of or grounded parts — forwards — backwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards of or live parts	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 fixing 142 mm 177.5 mm 223 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
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 for grounded parts — forwards — backwards — upwards — at the side for grounded parts — forwards — backwards — upwards — backwards — upwards — forwards — forwards — at the side — downwards for live parts — forwards	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 fixing 142 mm 177.5 mm 223 mm 10 mm		
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Connections/ Terminals					
type of electrical connection					
 for main current circuit 		screw-type terminals			
 for auxiliary and control circuit 		screw-type terminals			
 at contactor for auxiliary contacts 		Screw-type terminals			
 of magnet coil 		Screw-type terminals			
type of connectable conductor cross-sections for	main contacts				
• solid		2x (1 35 mm²), 1x (1 50 mm²)			
 solid or stranded 		2x (1 35 mm²), 1x (1 50 mm²)			
 finely stranded with core end processing 		2x (1 25 mm²), 1x (1 35 mm²)			
type of connectable conductor cross-sections	S				
 for auxiliary contacts 					
 solid or stranded 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end process 	sing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG cables for auxiliary contacts 		2x (20 16), 2x (18 14)			
Safety related data					
B10 value with high demand rate according to SN 31920		1 000 000			
proportion of dangerous failures					
with low demand rate according to SN 31920		40 %			
 with high demand rate according to SN 31920 		73 %			
failure rate [FIT] with low demand rate according	ate [FIT] with low demand rate according to SN 31920		100 FIT		
T1 value for proof test interval or service life acco	ording 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/ Protocol					
product function bus communication		No			
protocol is supported AS-Interface protocol		No			
product function control circuit interface with IO link		No			
Certificates/ approvals					
General Product Approval	Declaration of Conformity		Test Certificates	Marine / Shipping	

Confirmation







Type Test Certificates/Test Report



other Dangerous Good

Confirmation Transport Information

Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3RA2435-8XF32-1AC2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2435-8XF32-1AC2

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

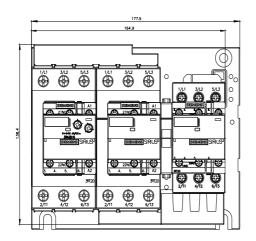
https://support.industry.siemens.com/cs/ww/en/ps/3RA2435-8XF32-1AC2

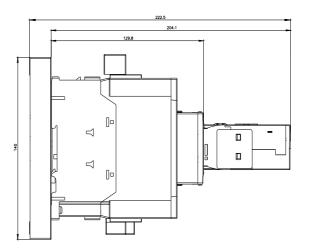
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

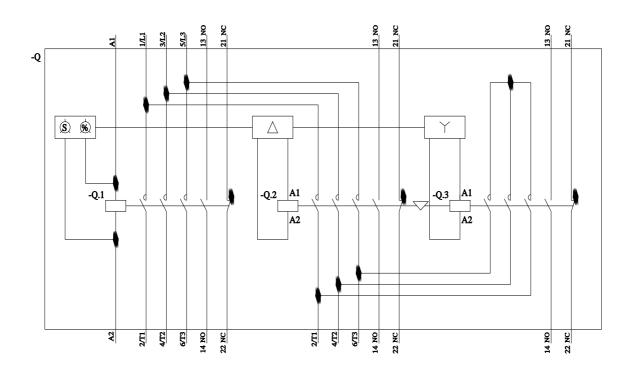
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2435-8XF32-1AC2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2435-8XF32-1AC2/char Further characteristics (e.g. electrical endurance, switching frequency)







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