SIEMENS

Data sheet 3RA2434-8XF32-1AL2

> Contactor assembly for star-delta (wye-delta) start AC-3, 22/30 kW/400 V, 230 V AC 50/60 Hz, 3-pole, size S2 screw terminals electrical and mechanical interlock 3 NO + 3 NC integrated



product brand name product designation product type designation manufacturer's article number

- 1 of the supplied contactor
- 2 of the supplied contactor
- 3 of the supplied contactor
- of the supplied RS assembly kit
- of the supplied function module for wye-delta

SIRIUS

Contactor assembly for star-delta (wye-delta) start

3RA24

3RT2035-1AL20

3RT2035-1AL20

3RT2026-1AL20

3RA2933-2C

3RA2816-0EW20

General technical data

size of contactor

product extension auxiliary switch

shock resistance at rectangular impulse

at AC

shock resistance with sine pulse

at AC

mechanical service life (switching cycles)

- of contactor typical
- of the contactor with added auxiliary switch block

reference code according to IEC 81346-2

Substance Prohibitance (Date)

S2 No

11.8g / 5 ms, 7.4g / 10 ms

18.5g / 5 ms, 11.6g / 10 ms

10 000 000

10 000 000

10/01/2014

Ambient conditions

installation altitude at height above sea level maximum ambient temperature

 during operation · during storage

2 000 m

-25 ... +60 °C

-55 ... +80 °C

Main circuit

number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage

• at AC-3 rated value maximum

operational current • at AC-3

— at 400 V rated value

operating power

• at AC-3

- at 400 V rated value

operating frequency

• at AC-3 maximum

3 3 0

690 V

65 A

22 kW

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	230 V	
at 50 Hz rated value at 60 Hz rated value	230 V	
	200 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	0.00 1.1	
• at 50 Hz	422 VA	
• at 60 Hz	378 VA	
inductive power factor with closing power of the coil	310 VA	
• at 50 Hz	0.69	
• at 60 Hz	0.65	
apparent holding power of magnet coil at AC	0.00	
• at 50 Hz	36.4 VA	
• at 60 Hz	35 VA	
inductive power factor with the holding power of the	00 1/1	
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	
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A	
for short-circuit protection of the auxiliary switch	fuse gG: 10 A	
required		
Installation/ mounting/ dimensions	1400	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
factoring mathed		
fastening method	screw fixing	
height width	142 mm 177.5 mm	
	177.5 mm 223 mm	
depth required spacing	220 111111	
with side-by-side mounting		
with side-by-side mounting — forwards	10 mm	
— forwards — backwards	0 mm	
	0 mm 10 mm	
— upwards — downwards	10 mm	
— at the side	10 mm	
for grounded parts— forwards	10 mm	
— backwards	0 mm 10 mm	
unwarde	10 11111	
— upwards		
— at the side	10 mm	
at the sidedownwards		
at the sidedownwardsfor live parts	10 mm 10 mm	
 at the side downwards for live parts forwards 	10 mm 10 mm	
 at the side downwards for live parts forwards backwards 	10 mm 10 mm 10 mm 0 mm	
 — at the side — downwards ● for live parts — forwards — backwards — upwards 	10 mm 10 mm 10 mm 0 mm 10 mm	
 at the side downwards for live parts forwards backwards 	10 mm 10 mm 10 mm 0 mm	

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)	
 at AWG cables for main contacts 	2x (18 2), 1x (18 1)	
type of connectable conductor cross-sections		
 for auxiliary contacts 		
— solid or 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 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 to SN 31920	100 FIT	
T1 value for proof test interval or service life according to IEC 61508	20 y	
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		

Confirmation

General Product Approval



tion



Declaration of Conformity



Type Test Certificates/Test Report

Test Certificates



Marine / Shipping

 other
 Dangerous Good

 Confirmation
 Transport Informa

Further information

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=3RA2434-8XF32-1AL2

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2434-8XF32-1AL2

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2434-8XF32-1AL2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RA2434-8XF32-1AL2/char}$

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

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