SIEMENS

Data sheet

3RA2437-8XF32-1AC2

Contactor assembly for star-delta (wye-delta) start AC-3, 55 kW/400 V, 24 V AC 50/60 Hz, 3-pole, size S2 screw terminals electrical and mechanical interlock 3 NO + 3 NC integrated

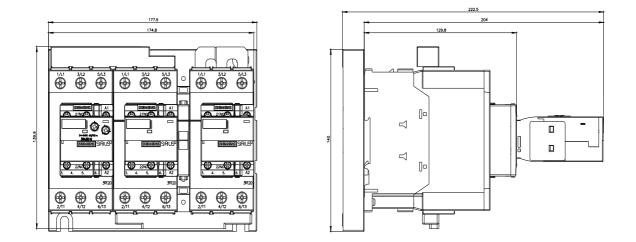


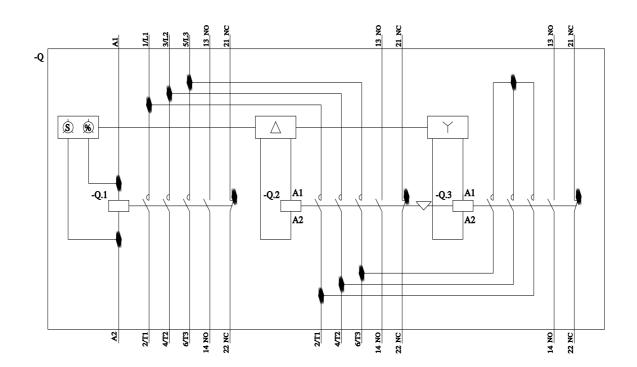
product type designation 3RA24 manufacturer's article number 3RA24	nbly for star-delta (wye-delta) start
manufacturer's article number	
4 of the sumplied equite step	
• 1 of the supplied contactor <u>3RT2037-1AC2</u>	2
2 of the supplied contactor <u>3RT2037-1AC2</u>	2
• 3 of the supplied contactor <u>3RT2035-1AC2</u>	2
• of the supplied RS assembly kit <u>3RA2933-2BB1</u>	
• of the supplied function module for wye-delta circuits <u>3RA2816-0EW2</u>	<u>0</u>
General technical data	
size of contactor S2	
product extension auxiliary switch No	
shock resistance at rectangular impulse	
• at AC 11.8g / 5 ms, 7.4	∔g / 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 115 A	
operating power	
• at AC-3	
— at 400 V rated value 55 kW	
operating frequency	
• at AC-3 maximum 700 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 50 Hz • at 60 Hz	0.36
• at 60 Hz	
number of NC contacts for auxiliary contacts	
instantaneous contacts	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: 250 A
- with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
 for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
fastoning mothod	backward by +/- 22.5° on vertical mounting surface
fastening method	screw fixing 142 mm
height width	142 mm 177.5 mm
depth	223 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
• for grounded parts	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
 for live parts 	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— downwards — at the side	10 mm 10 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	$2x (1 35 mm^2), 1x (1 50 mm^2)$	
finely stranded with core end processing	2x (1 25 mm ²), 1x (1 35 mm ²)	
type of connectable conductor cross-sections		
for auxiliary contacts		
-	$2 \times (0.5 \pm 1.5 \text{ mm}^2) \times (0.75 \pm 2.5 \text{ mm}^2)$	
 — solid or stranded finally stranded with care and processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)	
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)	
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)	_
afety related data	4 000 000	-
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 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	of Conformity Test Certificates Marine / Ship	ping
Confirmation EAC	UK Type Test Certific- ates/Test Report)
other Dangerous Good	BUREA VERITA	S
Sungerous Coou		
Confirmation Transport Information		
Surther information		
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-co	-down-russian-business	
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Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2437-8XF32-1AC2/char Further characteristics (e.g. electrical endurance, switching frequency)





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