## **SIEMENS**

## Data sheet

## 3RA2436-8XF32-1AL2

Contactor assembly for star-delta (wye-delta) start AC-3, 45 kW/400 V, 230 V AC 50/60 Hz, 3-pole, size S2 screw terminals electrical and mechanical interlock 3 NO + 3 NC integrated

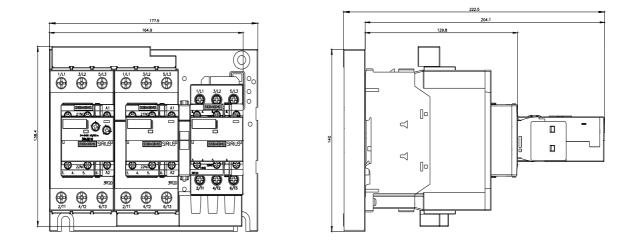


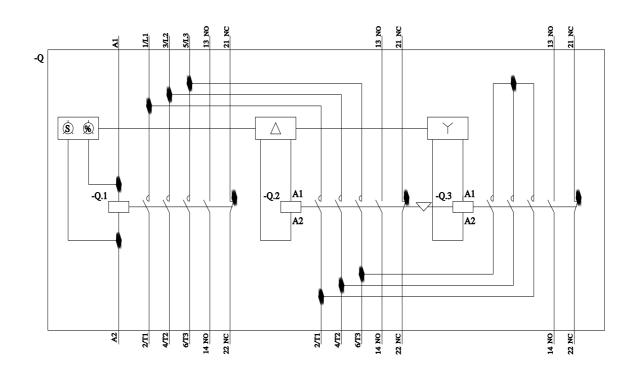
product brand name	SIRIUS	
product designation	Contactor assembly for star-delta (wye-delta) start	
product type designation	3RA24	
manufacturer's article number		
• 1 of the supplied contactor	<u>3RT2036-1AL20</u>	
2 of the supplied contactor	<u>3RT2036-1AL20</u>	
3 of the supplied contactor	<u>3RT2028-1AL20</u>	
<ul> <li>of the supplied RS assembly kit</li> </ul>	<u>3RA2933-2C</u>	
of the supplied function module for wye-delta circuits	<u>3RA2816-0EW20</u>	
General technical data		
size of contactor	\$2	
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	
<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)	10/01/2014	
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		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
operational current		
• at AC-3		
— at 400 V rated value	86 A	
operating power		
• at AC-3		
— at 400 V rated value	45 kW	
operating frequency		
• at AC-3 maximum	800 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 60 Hz rated value	230 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	
<ul> <li>instantaneous contact</li> </ul>	3
number of NO contacts for auxiliary contacts	
<ul> <li>instantaneous contact</li> </ul>	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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
<ul> <li>— with type of assignment 2 required</li> </ul>	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw fixing
height	142 mm
width	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
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
<ul> <li>for live parts</li> </ul>	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

Connections/ Terminals					
type of electrical connection					
for main current circuit	screw-type terminals	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals				
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals				
• of magnet coil	Screw-type terminals				
type of connectable conductor cross-sections for main contacts					
solid	$2x(1 - 35 \text{ mm}^2) + 1x(1 - 35 \text{ mm}^2)$	$50 \text{ mm}^2$			
solid     solid or stranded	$2x (1 35 \text{ mm}^2), 1x (1 50 \text{ mm}^2)$ $2x (1 35 \text{ mm}^2) 1x (1 50 \text{ mm}^2)$				
	$2x (1 35 \text{ mm}^2), 1x (1 50 \text{ mm}^2)$ $2x (1 25 \text{ mm}^2) 1x (1 35 \text{ mm}^2)$				
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)				
type of connectable conductor cross-sections					
<ul> <li>for auxiliary contacts</li> </ul>					
— solid or stranded	2x (0.5 1.5 mm²), 2x (0	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14	.)			
afety related data					
B10 value with high demand rate according to SN 31920	1 000 000				
proportion of dangerous failures					
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %				
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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 co	ntact 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				
	NO		_		
certificates/ approvals		Task Ossillardas	Marine / Okianing		
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Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2436-8XF32-1AL2/char Further characteristics (e.g. electrical endurance, switching frequency)





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3RA24368XF321AL2 Page 4/5

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