## SIEMENS

## Data sheet

## 3RA2416-8XH31-2BB4

Contactor assembly for star-delta (wye-delta) start, AS-i AC-3, 7.5 kW/400 V, 24 V DC 3-pole, Size S00 Spring-type terminals electrical and mechanical interlock 3 NO 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>3RT2017-2BB41-0CC0</u>		
2 of the supplied contactor	<u>3RT2017-2BB41</u>		
<ul> <li>3 of the supplied contactor</li> </ul>	<u>3RT2015-2BB41</u>		
<ul> <li>of the supplied RS assembly kit</li> </ul>	<u>3RA2913-2BB2</u>		
<ul> <li>of the supplied function module for communication</li> </ul>	<u>3RA2712-2CA00</u>		
General technical data			
size of contactor	S00		
product extension auxiliary switch	No		
shock resistance at rectangular impulse			
• at AC	6,7g / 5 ms, 4,2g / 10 ms		
• at DC	6,7g / 5 ms, 4,2g / 10 ms		
shock resistance with sine pulse			
• at AC	10,5g / 5 ms, 6,6g / 10 ms		
• at DC	10,5g / 5 ms, 6,6g / 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	16 A		
operating power			
• at AC-3			
— at 400 V rated value	7.5 kW		

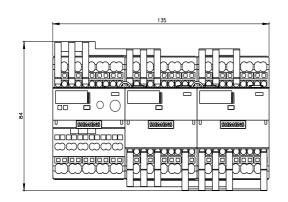
— at 500 V rated value	10.3 kW
— at 500 V rated value — at 690 V rated value	9.2 kW
operating frequency	J.2 IVV
at AC-3 maximum	1 000 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage 1	
at DC rated value	24 V
closing power of magnet coil at DC	10 W
holding power of magnet coil at DC	10 W
Auxiliary circuit	
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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 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 and snap-on mounting onto 35 mm DIN rail
height	84 mm
width	135 mm
depth	145 mm
required spacing	
with side-by-side mounting	0 mm
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
for grounded parts	
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— at the side	6 mm
— downwards	6 mm
for live parts	C
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side Connections/ Terminals	6 mm
type of electrical connection	apring loaded terminale
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil     type of connectable conductor cross sections for main contacts	Spring-type terminals
type of connectable conductor cross-sections for main contacts	$2x (0.5 - 4 \text{ mm}^2)$
solid     solid or strandod	2x (0.5 4 mm <sup>2</sup> )
<ul> <li>solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	2x (0,5 4 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core and processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
finely stranded without core end processing	2x (0.5 2.5 mm²)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	

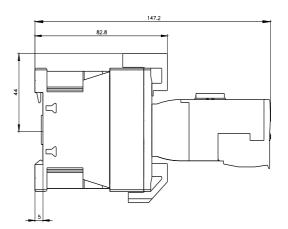
— solid or stra	anded		2x (0.5 2.5 mm²)				
-	ded with core end proces	•	2x (0.5 1.5 mm²)				
— finely stran	ded without core end proc	cessing	2x (0.5 1.5 mm²)				
	for auxiliary contacts		2x (20 14)				
Safety related data							
B10 value with high de	mand rate according to S	N 31920	1 000 000				
proportion of danger	ous failures						
<ul> <li>with low demand</li> </ul>	I rate according to SN 319	920	40 %				
<ul> <li>with high deman</li> </ul>	d rate according to SN 31	920	75 %				
	TT] with low demand rate according to SN 31920 100 FIT		100 FIT	JO FIT			
T1 value for proof test interval or service life according to IEC 61508		20 a					
protection class IP or	protection class IP on the front according to IEC 60529			IP20			
· ·	touch protection on the front according to IEC 60529		finger-safe, for ver	tical contact from the front			
Communication/ Protoc	col						
product function bus	communication		No				
protocol is supported A	S-Interface protocol		Yes				
product function contro	I circuit interface with IO I	ink	No				
Certificates/ approvals							
General Product App	roval	Declaration of	f Conformity	Test Certificates	S		
<u>Confirmation</u>	EHC	UK	C EG-K	e <u>Special Test Cer</u> ate	tific- <u>Type Test Certific-</u> ates/Test Report		
ABS	BUREAU		Llo Reg	ster s PRS	RINA		
Marine / Shipping	other	Railway	Dangerou	s Good			
RMRS	<u>Confirmation</u>	Vibration and s	Shock Transport I	nformation			
Further information							
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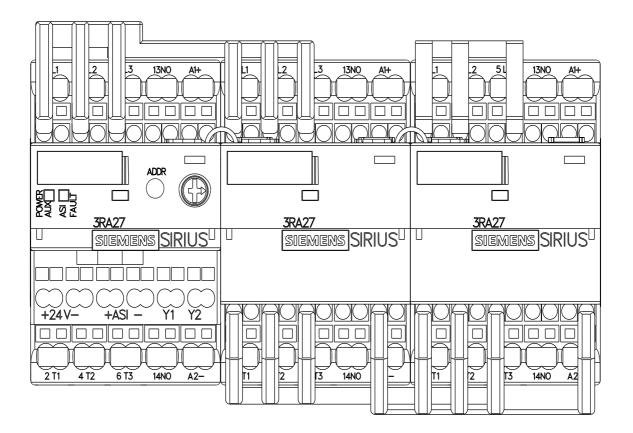
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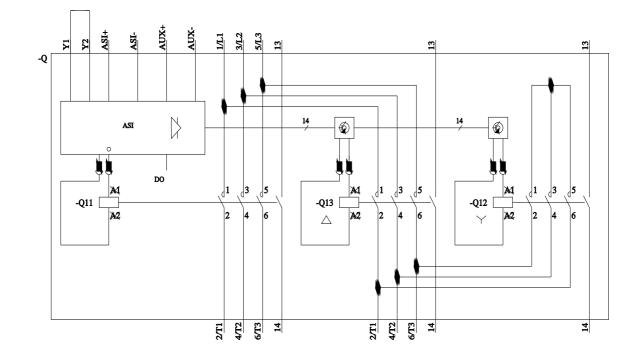
 Further characteristics (e.g. electrical endurance, switching frequency)

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2416-8XH31-2BB4&objecttype=14&gridview=view1









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