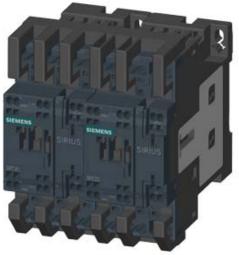
## **SIEMENS**

## Data sheet

## 3RA2328-8XB30-2BB4



REV. COMB., AC3, 18.5KW/ 400V DC24V 3-POLE, SZ S0 SPRING-LOADED TERMINAL ELECTR. AND MECH. INTERLOCK 2NO INTEGR.

product brand name	SIRIUS		
Product designation	star-delta (wye-delta) contactor assembly 3RA24		
Manufacturer article number			
<ul> <li>1 of the supplied contactor</li> </ul>	3RT2028-2BB40		
<ul> <li>2 of the supplied contactor</li> </ul>	3RT2028-2BB40		
<ul> <li>of the supplied RS assembly kit</li> </ul>	3RA2923-2AA2		

V	690
_	3
	9.8g / 5 ms and 5.9g / 10 ms
kV	6
_	
	10 000 000
	10 000 000
-	
	IP20
_	
	Q
-	

Main Circuit.	
Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Operating voltage	

<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	A	50
— at 400 V at ambient temperature 60 °C Rated value	A	45
• at AC-2 at 400 V Rated value	А	38
• at AC-3		
— at 400 V Rated value	А	38
• at AC-4 at 400 V Rated value	А	22
Operating current with 1 current path	_	
● at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	4.5
● at DC-3 at DC-5		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	2.5
Operating current with 2 current paths in series	_	
● at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	35
● at DC-3 at DC-5		
— at 110 V Rated value	А	15
— at 24 V Rated value	А	35
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	35
• at DC-3 at DC-5		
— at 110 V Rated value	А	35
— at 24 V Rated value	А	35
Operating power		
• at AC-2 at 400 V Rated value	kW	18.5
• at AC-4 at 400 V Rated value	kW	11
Operating power		
• at AC-3		
— at 400 V Rated value	kW	18.5
— at 500 V Rated value	kW	22
— at 690 V Rated value	kW	18.5
Operating frequency		
• at AC-3 maximum	1/h	1 000

No-load switching frequency	1/h	1 500
Control circuit/ Control: Type of voltage of the control supply voltage	_	DC
Control supply voltage 1	-	
for DC Rated value	V	24
	V	0.8 1.1
Operating range factor control supply voltage rated value of the magnet coil for DC		0.0 1.1
Closing power of the magnet coil for DC	W	5.9
Holding power of the magnet coil for DC	W	5.9
Auxiliary circuit:		
Number of NC contacts		
<ul> <li>for auxiliary contacts</li> </ul>		
— per direction of rotation		0
— instantaneous contact		0
— lagging switching		0
Number of NO contacts	-	
<ul> <li>for auxiliary contacts</li> </ul>		
— per direction of rotation		0
— instantaneous contact		0
— leading contact		0
Product expansion Auxiliary switch	-	Yes
Operating current of the auxiliary contacts at AC-12	А	10
maximum		
Operating current of the auxiliary contacts at AC-15		
• at 230 V	A	6
● at 400 V	А	3
Operating current of the auxiliary contacts at DC-13		
• at 24 V	A	10
● at 60 V	А	2
● at 110 V	А	1
● at 220 V	А	0.3
Contact reliability of the auxiliary contacts		< 1 error per 100 million operating cycles
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	34
• at 600 V Rated value	А	27
yielded mechanical performance [hp]		
<ul> <li>for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	3
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	5

<ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	10
<ul> <li>for three-phase AC motor at 460/480 V Rated value</li> </ul>	metric hp	25
• for three-phase AC motor at 575/600 V Rated	metric	25
value	hp	
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
<ul> <li>— with type of assignment 1 required</li> </ul>		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
<ul> <li>— with type of assignment 2 required</li> </ul>		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>		fuse gL/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
Mounting type	_	screw and snap-on mounting onto 35 mm standard mounting rail
Height	mm	114
Width	mm	90
Depth	mm	107
Required spacing	_	
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6
<ul> <li>for grounded parts</li> </ul>		
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— at the side	mm	6
— downwards	mm	6
• for live parts		
— forwards	mm	6
— Backwards	mm	0
		6
— upwards	mm	
— downwards	mm	6
— at the side	mm	6

Connections/ Terminals:		
Type of electrical connection		
<ul> <li>for main current circuit</li> </ul>		spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>		spring-loaded terminals
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (1 10 mm²)
<ul> <li>— finely stranded with core end processing</li> </ul>		2x (1 6 mm²)
— finely stranded without core end		2x (1 6 mm²)
processing		
<ul> <li>for AWG conductors for main contacts</li> </ul>		1x (18 8)
<ul> <li>for auxiliary contacts</li> </ul>		
— single or multi-stranded		2x (0,5 2,5 mm²)
— finely stranded with core end processing		2x (0.5 1.5 mm²)
— finely stranded without core end		2x (0.5 1.5 mm²)
processing		
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (20 14)
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	40
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	75
Failure rate [FIT] with low demand rate acc. to SN	FIT	100
31920		
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Protection against electrical shock		finger-safe
Mechanical data:		
Size of contactor		S0
Communication/ Protocol:		
Product function Bus communication		No
Protocol is supported		
AS-interface protocol		No
Product function Control circuit interface with IO link		No
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
• during operation	°C	-25 +60
• during storage	°C	-55 +80
Certificates/ approvals:		

General Produc	t Approval		Declaration of Conformity	Test Certificates	Shipping Approval				
CSA		EHC	EG-Konf.	Special Test Certificate	ABS				
Shipping Approv	Shipping Approval								
B U R E A U V E R I TAS		GL	Lloyd's Register LRS	PRS	RINA				
Shipping	other								
Approval		· · · · · · · · · · · · · · · · · · ·							
RMRS	Environmental Confirmations	<u>other</u>							

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

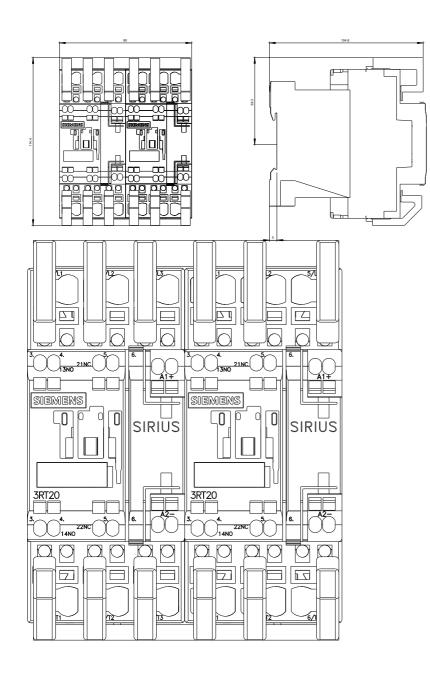
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

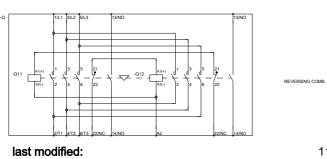
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA23288XB302BB4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA23288XB302BB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA23288XB302BB4&lang=en





REVERSING COMB. SZ S0

WENDEKOMBINATION BGR. S0

11.03.2015