## SIEMENS

## Data sheet

## 3RA2328-8XB30-1AL2



Reversing contactor assembly AC-3,18 kW/400 V,AC230V,50/60Hz 3-pole, Size S0 screw terminal electrical and mechanical Interlock 2 NO integrated

product brand name	SIRIUS
product designation	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	
1 of the supplied contactor	3RT2028-1AL20
• 2 of the supplied contactor	3RT2028-1AL20
<ul> <li>of the supplied RS assembly kit</li> </ul>	3RA2923-2AA1
General technical data	
size of contactor	SO
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block</li> </ul>	10 000 000
typical	
reference code acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-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
<ul> <li>operating voltage at AC-3 rated value maximum</li> </ul>	690 V
operational current at AC-3	
• at 400 V rated value	38 A
operating power	
• at AC-3	
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	18.5 kW

• at AC-4 at 400 V rated value	11 kW
operating frequency at AC-3 maximum	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 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	0.8 1.1
apparent pick-up power of magnet coil at AC	0.0 1.1
• at 50 Hz	77 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	9.8 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.27
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
• per direction of rotation	1
• instantaneous contact	2
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	34 A
• at 600 V rated value	27 A
yielded mechanical performance [hp] for 3-phase AC motor	
<ul> <li>at 220/230 V rated value</li> </ul>	10 hp
• at 460/480 V rated value	25 hp
at 575/600 V rated value	25 hp
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> <li>— with type of coordination 1 required</li> </ul>	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
- with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 10 A
required	
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 standard mounting rail
height	101 mm
width	90 mm
depth required encoing	97 mm
<ul> <li>required spacing</li> <li>with side-by-side mounting</li> </ul>	
<ul> <li>with side-by-side modifying</li> <li>forwards</li> </ul>	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	6 mm
— backwards	0 mm

			-				
— upwards			6 mm				
— at the side			6 mm				
- downwards	3		6 mm				
<ul> <li>for live parts</li> </ul>							
— forwards			6 mm				
— backwards			0 mm				
— upwards			6 mm				
- downwards	3		6 mm				
— at the side			6 mm				
<b>Connections/ Terminal</b>	ls						
type of electrical conne	ection for main current	circuit	screw-type terminals				
type of connectable of							
<ul> <li>for main contact</li> </ul>							
— solid			2x (1 2.5 mm²), 2x (2.5 10 mm²)				
— solid or stra	anded		2x (1 2,5 mm <sup>2</sup> ), 2x (2,5 10 mm <sup>2</sup> )				
	ded with core end pro	cessing	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>				
<ul> <li>at AWG cables f</li> </ul>		secong	2x (16 12), 2x (14 8)				
type of connectable of		tions	2A (10 12), 2A (14 0)				
<ul> <li>for auxiliary cont</li> </ul>							
<ul> <li>Ior auxiliary corri — solid or stra</li> </ul>			$2x (0.5 - 1.5 \text{ mm}^2) 2x (0.75 - 2.5 \text{ mm}^2)$				
		ressing	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
	ded with core end prod	Jessing					
	for auxiliary contacts		2x (20 16), 2x (18 14)				
Safety related data							
B10 value with high de		31920	1 000 000				
proportion of danger							
<ul> <li>with low demand</li> </ul>	d rate acc. to SN 3192	0	40 %				
<ul> <li>with high deman</li> </ul>	nd rate acc. to SN 3192	20	75 %				
failure rate [FIT] with lo	ow demand rate acc. to	o SN 31920	100 FIT				
T1 value for proof tes IEC 61508	st interval or service	life acc. to	20 у				
protection class IP of	n the front acc. to IE	C 60529	IP20				
touch protection on t	the front acc. to IEC	60529	finger-safe, for vertical contact from the front				
<b>Communication/ Proto</b>	col						
product function bus	communication		Yes				
protocol is supported A			No				
product function contro	•	IO link	No				
Certificates/ approvals							
General Product App	proval		Declaration of Confe	ormity	Test Certificates		
		EAC	<u>Miscellaneous</u>	CE EG-Konf.	<u>Special Test</u> <u>Certificate</u>		
Marine / Shipping							
ABS	BUREAU VERITAS	Lloyd's Register urs	PRS	RINA	RMRS R		
Marine / Shipping	other	Railway					



## **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=3RA2328-8XB30-1AL2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2328-8XB30-1AL2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-1AL2

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

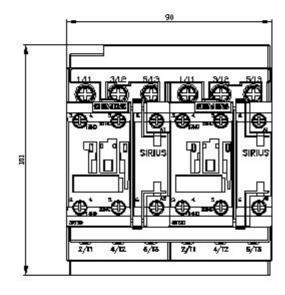
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2328-8XB30-1AL2&lang=en

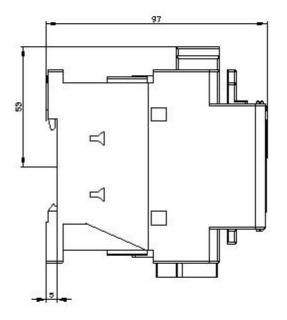
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

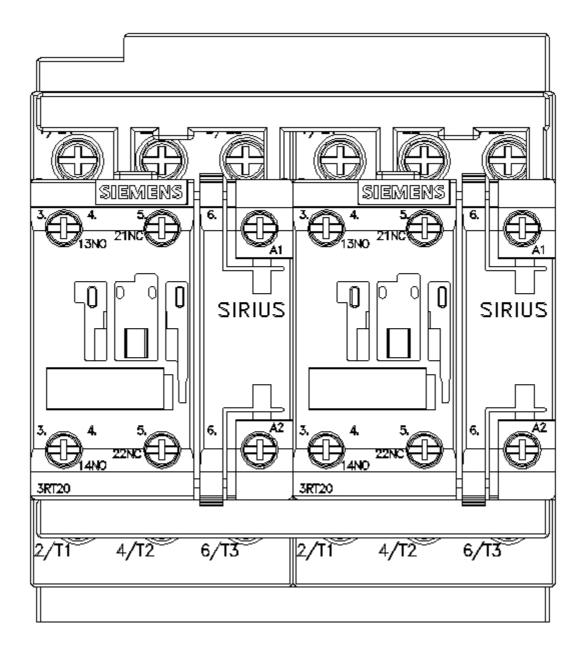
https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-1AL2/char

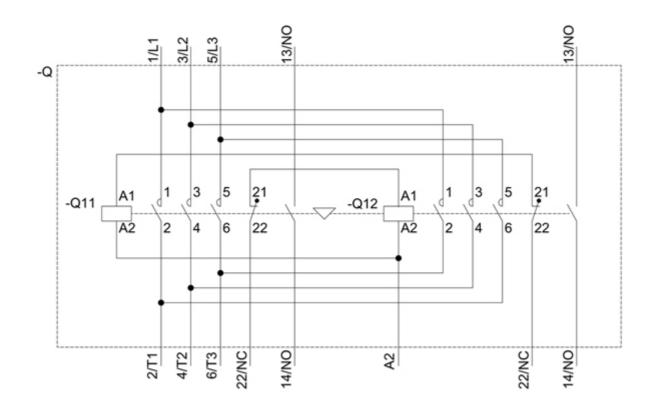
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2328-8XB30-1AL2&objecttype=14&gridview=view1









last modified:

12/15/2020 🖸