SIEMENS

Data sheet

3RA2328-8XB30-2AK6

Reversing contactor assembly AC-3, 18 kW/400 V 110 V AC 50 Hz/120 V 60 Hz, 3-pole Size S0, Spring-type 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 	3RT2028-2AK60
 2 of the supplied contactor 	<u>3RT2028-2AK60</u>
 of the supplied RS assembly kit 	3RA2923-2AA2

General technical data			
Size of contactor	S0		
Product extension			
Auxiliary switch	Yes		
 Insulation voltage with degree of pollution 3 at 	690 V		
AC rated value			
Surge voltage resistance rated value	6 kV		
 protection class IP on the front 	IP20		
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)			
 of contactor typical 	10 000 000		
 of the contactor with added auxiliary switch block typical 	10 000 000		
Reference code acc. to DIN EN 81346-2	Q		
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		
Aain 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		
Operating current			
• at AC-3			
— at 400 V rated value	38 A		
Operating current			
 at 1 current path at DC-1 			
— at 24 V rated value	35 A		
— at 110 V rated value	4.5 A		
 with 2 current paths in series at DC-1 			
— at 24 V rated value	35 A		
— at 110 V rated value	35 A		
 with 3 current paths in series at DC-1 			
— at 24 V rated value	35 A		
— at 110 V rated value	35 A		
Operating current			
• at 1 current path at DC-3 at DC-5			
— at 24 V rated value	20 A		
— at 110 V rated value	2.5 A		
 with 2 current paths in series at DC-3 at DC-5 			
— at 24 V rated value	35 A		
— at 110 V rated value	15 A		
 with 3 current paths in series at DC-3 at DC-5 			

Operating power at AC-3 at 400 V rated value at 500 V rated value at 500 V rated value at AC-4 at 400 V rated value at AC-4 at 400 V rated value bt AC-4 at 400 V rated value at AC-4 at 400 V rated value bt Z <li< th=""><th></th><th></th></li<>				
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Number of NO contacts for auxiliary contacts • per direction of rotation 1 • instantaneous contact 2 Operating current of auxiliary contacts at AC-12 10 A	Auxiliary circuit			
Per direction of rotation instantaneous contact Operating current of auxiliary contacts at AC-12 10 A				
instantaneous contact 2 Operating current of auxiliary contacts at AC-12 10 A	• per direction of rotation	1		
Operating current of auxiliary contacts at AC-12 10 A		2		
		10 A		
	maximum			
• Operating current of auxiliary contacts at AC-15 6 A at 230 V		6 A		
• operating current of auxiliary contacts at AC-15 3 A at 400 V		3 A		
• operating current of auxiliary contacts at DC-13 10 A at 24 V		10 A		
• Operating current of auxiliary contacts at DC-13 2 A at 60 V		2 A		

 Operating current of auxiliary contacts at DC-13 at 110 V 	1 A		
 Operating current of auxiliary contacts at DC-13 at 220 V 	0.3 A		
contact reliability of 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	34 A		
• at 600 V rated value	27 A		
Yielded mechanical performance [hp]			
 for single-phase AC motor 			
— at 110/120 V rated value	3 hp		
— at 230 V rated value	5 hp		
 for three-phase AC motor 			
— at 220/230 V rated value	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			
 for short-circuit protection of the main circuit 			
- with type of coordination 1 required gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A			
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A		
 for short-circuit protection of the auxiliary switch 	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		
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail		
Height	114 mm		
Width	90 mm		
Depth	97 mm		
Required spacing			
 with side-by-side mounting 			
— 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				
— forwards	6 mm			
— Backwards	0 mm			
— upwards	6 mm			
— downwards	6 mm			
— at the side	6 mm			
Connections/ Terminals				
• Type of electrical connection for main current	spring-loaded terminals			
circuit				
 Type of electrical connection for auxiliary and control current circuit 	spring-loaded terminals			
control current circuit Type of connectable conductor cross-sections				
for main contacts				
— solid	2x (1 10 mm²)			
— single or multi-stranded	2x (1 10 mm ²)			
 — finely stranded with core end processing 	2x (1 6 mm²)			
 finely stranded with core end processing finely stranded without core end 	2x (1 6 mm²)			
processing				
 at AWG conductors for main contacts 	1x (18 8)			
Type of connectable conductor cross-sections				
 for auxiliary contacts 				
— 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				
 at AWG conductors for auxiliary contacts 	2x (20 14)			
Safety related data				
B10 value				
• with high demand rate acc. to SN 31920	1 000 000			
Proportion of dangerous failures				
• with low demand rate acc. to SN 31920	40 %			
• with high demand rate acc. to SN 31920	75 %			
Failure rate [FIT]				
• with low demand rate acc. to SN 31920	100 FIT			
T1 value for proof test interval or service life acc. to IEC 61508	20 y			

Communication/ Protocol		
product function bus communication	Yes	
Protocol is supported		
AS-Interface protocol	No	
Product function Control circuit interface with IO link	No	

General Product Approval		Declaration of	Declaration of Conformity		
(SA) CSA		EHC	EG-Konf.	Miscellaneous	Special Test Certi- ficate

Marine / Ship	ping					
ANCAN BURSE	BUREAU	Lloyd's Register				
ABS	VEBITAS	LRS	PRS	RINA	RMRS	

Marine / Ship- ping	other	Railway
AND NV-GL	Confirmation	Vibration and Shock

Further information

DNVGL.COM/AF

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=3RA2328-8XB30-2AK6

Cax online generator

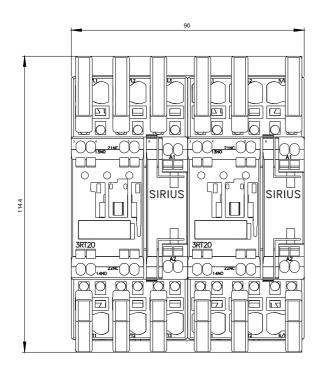
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2328-8XB30-2AK6

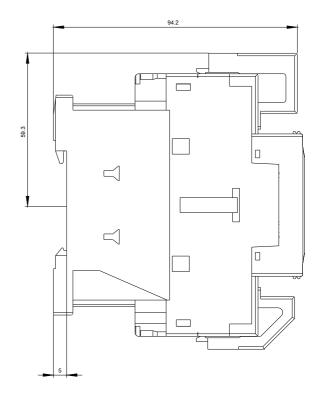
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-2AK6

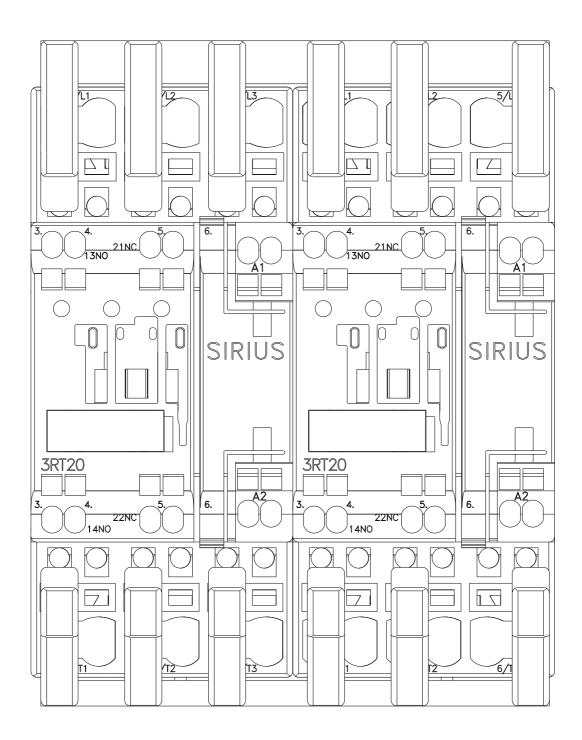
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2328-8XB30-2AK6&lang=en______

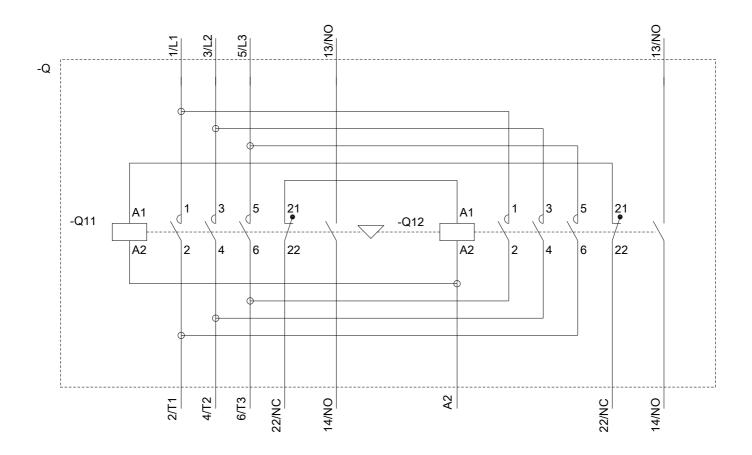
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-2AK6/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2328-8XB30-2AK6&objecttype=14&gridview=view1









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