SIEMENS

Data sheet

3RA2328-8XE30-2BB4

Reversing contactor assembly for 3RA27 AC3 18.5 kW/400 V, 24 V DC 3-pole, Size S0 Spring-type terminal electrical and mechanical interlock 2 NO integrated, with voltage tap



product brand name	SIRIUS	
Product designation	Reversing contactor assembly	
Product type designation	3RA23	
Manufacturer's article number		
 1 of the supplied contactor 	3RT2028-2BB40-0CC0	
 2 of the supplied contactor 	<u>3RT2028-2BB40</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 AC rated value 	690 V
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	

Mechanical service life (switching cycles) 10 000 • of contactor typical 10 000 • of the contactor with added auxiliary switch block typical 10 000	000
of contactor typical 10 000 of the contactor with added auxiliary switch block typical 10 000	
of the contactor with added auxiliary switch block typical	
block typical	
Reference code acc. to DIN EN 81346-2 Q	
Ambient conditions	
Installation altitude at height above sea level	
• maximum 2 000 n	I Contraction of the second
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	
• 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 	
— at 24 V rated value 35 A	

at 110 V rated value	35 A		
— at 110 V rated value			
Operating power			
• at AC-3	18.5 kW		
— at 400 V rated value			
— 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		
No-load switching frequency	1 500 1/h		
Operating frequency 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	5.9 W		
Holding power of magnet coil at DC	5.9 W		
Auxiliary circuit			
Number of NO contacts for auxiliary contacts			
 per direction of rotation 	1		
 instantaneous contact 	2		
Operating current of auxiliary contacts at AC-12 maximum	10 A		
 Operating current of auxiliary contacts at AC-15 at 230 V 	6 A		
 operating current of auxiliary contacts at AC-15 at 400 V 	3 A		
 operating current of auxiliary contacts at DC-13 at 24 V 	10 A		
 Operating current of auxiliary contacts at DC-13 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 25 hp A600 / Q600		
— at 575/600 V rated value			
Contact rating of auxiliary contacts according to UL			
hort-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 required 	fuse gG: 10 A		
stallation/ 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 ra		
Height	114 mm		
Width	90 mm		
Depth	107 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 			
 for live parts forwards 	6 mm		
	6 mm 0 mm		
— forwards			
— forwards — Backwards	0 mm		

 Type of electrical connection for main current circuit 	spring-loaded terminals			
 Type of electrical connection for auxiliary and control current circuit 	spring-loaded terminals			
Type of connectable conductor cross-sections				
• for main contacts				
— solid	2x (1 10 mm²)			
— single or multi-stranded	2x (1 10 mm²)			
 — finely stranded with core end processing 	2x (1 6 mm²)			
 finely stranded without core end processing 	2x (1 6 mm²)			
 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 processing 	2x (0.5 1.5 mm²)			
 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 low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 	40 % 75 %			
• with high demand rate acc. to SN 31920				
• with high demand rate acc. to SN 31920 Failure rate [FIT]	75 %			
 with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to 	75 % 100 FIT			
 with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 	75 % 100 FIT			
 with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 Communication/ Protocol 	75 % 100 FIT 20 y			
with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 Communication/ Protocol product function bus communication	75 % 100 FIT 20 y			
with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 Communication/ Protocol product function bus communication Protocol is supported	75 % 100 FIT 20 y Yes			

Certificates/ approvals

General Produc	t Approval		Declaration of	of Conformity	Test Certific- ates		
CSA		EHC	EG-Konf.	Miscellaneous	Special Test Certi- ficate		
Marine / Shippin	Marine / Shipping						
ABS	BUREAU VERITAS	Lloyd's Register Irs	PRS	RINA	RMRS		
Marine / Ship- ping	other	Railway					
ANV-GL	Confirmation	Vibration and Shock					

urther 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=3RA2328-8XE30-2BB4

Cax online generator

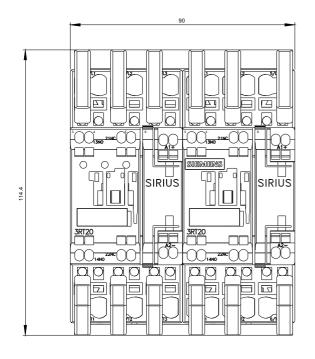
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2328-8XE30-2BB4

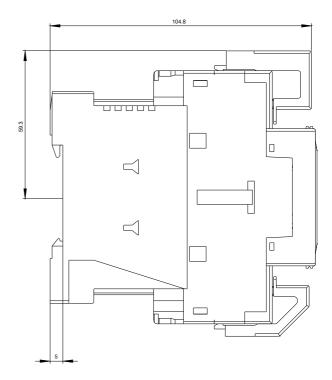
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XE30-2BB4

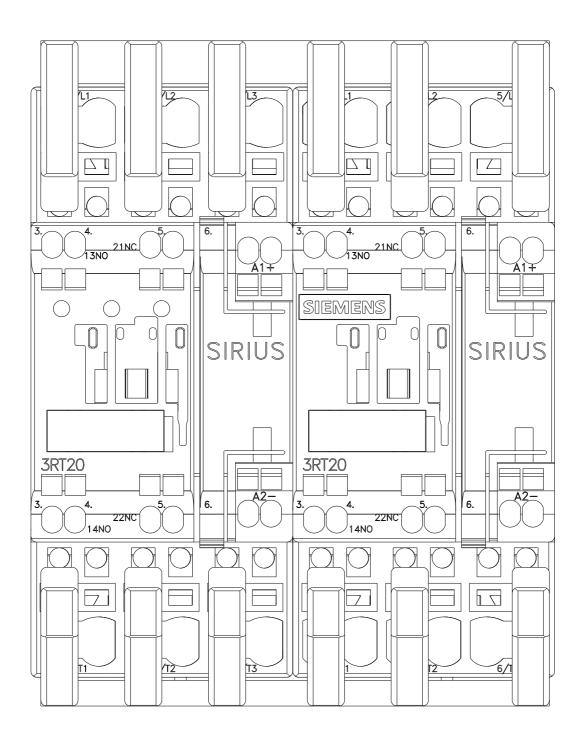
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2328-8XE30-2BB4&lang=en

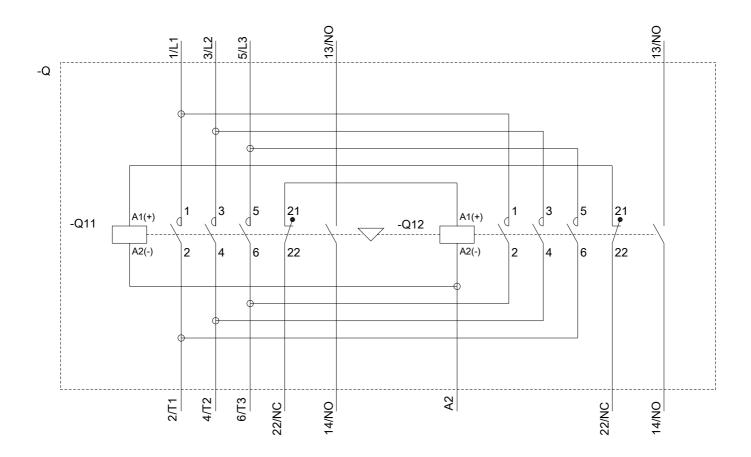
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XE30-2BB4/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2328-8XE30-2BB4&objecttype=14&gridview=view1









last modified:

08/13/2020