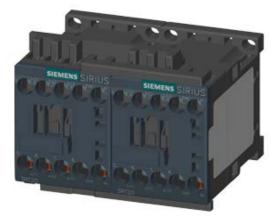
SIEMENS

Data sheet

3RA2317-8XB30-1AF0

REV. COMB., AC3, 5.5KW/ 400V AC110V, 50/60HZ, 3-POLE, SZ S00 SCREW TERMINAL ELECTR. AND MECH. INTERLOCK



g contactor assembly 3RA23
-1AF02
-1AF02
-2AA1
-

General technical data:		
Insulation voltage		
 with degree of pollution 3 Rated value 	V	690
Degree of pollution		3
Shock resistance		9.8g / 5 ms and 5.9g / 10 ms
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
 of the contactor typical 		10 000 000
 of the contactor with added auxiliary switch 		10 000 000
block typical		
Protection class IP		
• on the front		IP20
Equipment marking		
• acc. to DIN EN 81346-2		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		

 at AC-3 Rated value maximum 	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C	А	22
Rated value		
— at 400 V at ambient temperature 60 °C Rated value	А	20
 at AC-2 at 400 V Rated value 	А	7
• at AC-3		
— at 400 V Rated value	А	12
• at AC-4 at 400 V Rated value	А	8.5
Operating current with 1 current path	-	
• at DC-1		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	2.1
● at DC-3 at DC-5		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	0.15
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	12
● at DC-3 at DC-5		
— at 110 V Rated value	А	0.35
— at 24 V Rated value	А	20
Operating current with 3 current paths in series	-	
● at DC-1		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	20
● at DC-3 at DC-5		
— at 110 V Rated value	А	20
— at 24 V Rated value	А	20
Operating power		
• at AC-2 at 400 V Rated value	kW	5.5
• at AC-4 at 400 V Rated value	kW	4
Operating power		
• at AC-3		
— at 400 V Rated value	kW	5.5
— at 500 V Rated value	kW	5.5
— at 690 V Rated value	kW	5.5
Operating frequency		
• at AC-3 maximum	1/h	750

Control Control: Type of voltage of the control supply voltage AC Control is upply voltage 1 with AC v 110 • at 50 Hz Rated value V 110 Operating range factor control supply voltage rated value of the magnet coll with AC 0.8 1.1 • at 50 Hz 0.8 1.1 • for auxiliary contacts 0 • of auxiliary contacts 0 • for auxiliary contacts 0 • for auxiliary contacts at AC-12 0 • for auxiliary contacts at AC-15 4 • at 200 V A 3 Operating current of the auxiliary contacts at AC-15 4 • at 600 V A	No-load switching frequency	1/h	1 500
Type of voltage of the control supply voltage AC Control supply voltage 1 with AC • at 50 Hz Rated value V • at 50 Hz Rated value V 110 Operating range factor control supply voltage rated value of the magnet coll with AC 0.8 1.1 • at 50 Hz 0.8 1.1 Auxiliary contacts 0 • for auxiliary contacts 0 • instantaneous contact 0 - leading ownership 0 Number of NC contacts 0 • for auxiliary contacts 0 - leading contacts 0 - leading contacts 0 - leading contact 0 Operating current of the auxiliary contacts at AC-12 maximum A 0 10 Operating current of the auxiliary contacts at AC-13 A • at 230 V A 6 • at 230 V A 10 • at 24 V A 10 • at 20 V A 2 • at 20 V A 2 • at 20 V A 1 • at 20 V A 10 • at 20 V A 1 • at 20 V A 1 • at 80 V Rated value A 1 • at 20 V <t< td=""><td></td><td></td><td></td></t<>			
Control supply voltage 1 with AC V 110 • at 50 Hz Rated value V 110 Operating range factor control supply voltage rated value of the magnet coll with AC V 110 • at 50 Hz 0.811 0.81.1 • at 50 Hz 0.81.1 0.81.1 • at 50 Hz 0.81.1 0.81.1 • at 50 Hz 0.81.1 0.81.1 • for auxilary contacts 0 0 - lagging switching 0 0 • for auxilary contacts 0 0 - lagging switching 0 0 • for auxilary contacts 0 0 - per direction of rotation 0 0 - instantaneous contact 0 0 - lagging switching 0 0 Operating current of the auxiliary contacts at AC-12 0 0 - ladding contact 0 0 - ladding contact 0 0 Operating current of the auxiliary contacts at AC-12 A 10 axistory A 3 3 Operating current of the auxiliary contacts at DC-13 - - • at 20 V A 10 - • at 60 V A 3 -		_	AC
• at 50 Hz Rated valueV110• at 60 Hz Rated valueV110Operating range factor control supply voltage rated value of the magnet coll with AC • at 50 Hz • at 60 Hz0.8 1.1• at 50 Hz • at 60 Hz0.8 1.1Outliary circuit:0.8 1.1Number of NC contacts • for auxiliary contacts0- per direction of rotation - lagging switching0Number of NO contacts • for auxiliary contacts0• for auxiliary contacts0- lagging switching0Number of NO contacts • for auxiliary contacts0• for auxiliary contacts at AC-16 • at 230 VA• at 230 VA• at 24 VA• at 250 VA• at 220 VA• at 220 VA• at 220 VA• at 200 V Raet valueA• at 490 V Raet valueA• at 200 V Raet valueA<		_	AC
at 60 Hz Rated value V 110 Operating range factor control supply voltage rated value of the magnet coll with AC 0.8 1.1 at 50 Hz 0.8 1.1 at 60 Hz 0.8 1.1 Auxiliary circuit: 0.8 1.1 Number of NC contacts 0 - per direction of rotation 0 - instantaneous contact 0 - lagging switching 0 Number of NC contacts 0 - per direction of rotation 0 - instantaneous contact 0 - per direction of rotation 0 - instantaneous contact 0 - per direction of rotation 0 - instantaneous contact 0 - leading contact 0 Operating current of the auxiliary contacts at AC-12 A maximum A 10 Operating current of the auxiliary contacts at AC-12 A at 400 V A 3 Operating current of the auxiliary contacts at DC-13 - at 400 V A 1 at 400 V A 1 at 24 V A		M	110
Operating range factor control supply voltage rated value of the megnet coll with AC 0.8 1.1 • at 50 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 Number of NC contacts 0 • for auxiliary contacts 0 - per direction of rotation 0 - instantaneous contact 0 • for auxiliary contacts 0 - per direction of rotation 0 - lagging switching 0 Number of NC contacts 0 • for auxiliary contacts 0 - per direction of rotation 0 - per direction of rotation 0 - instantaneous contact 0 - per direction of rotation 0 Operating current of the auxiliary contacts at AC-12 A maximum A 10 Operating current of the auxiliary contacts at DC-13 A 2 • at 20 V A 1 • at 22 V A <			
value of the magnet coil with AC08• at 50 Hz0.8• at 60 Hz0.8• at 60 Hz0.8Auxiliary circuit:Number of NC contacts0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- lagging switching0Number of NC contacts0• for auxiliary contacts0- lagging switching0Number of NO contacts0• for auxiliary contacts0• for auxiliary contacts0• for auxiliary contacts0• for auxiliary contacts0• leading contact0- leading contact0• leading contact0• leading cortent of the auxiliary contacts at AC-12Amaximum10Operating current of the auxiliary contacts at AC-12A• at 20 VA6• at 20 VA10• at 20 VA10• at 60 VA2• at 20 VA0.3• at 20 VA0.3• at 20 VA1• at 60 VA2• at 20 VA1• at 20 VA1• at 20 VA1• at 20 VA1• at 400 V Rated valueA1• at		V	110
• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1Auxiliary circuit:Number of NC contacts0- per direction of rotation0- instantaneous contact0- lagging switching0• for auxiliary contacts0- lagging switching0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- leading contact0Porduct expansion Auxiliary switchYesOperating current of the auxiliary contacts at AC-12 maximumA010Operating current of the auxiliary contacts at AC-13 • at 230 VA• at 230 VA6• at 400 VA3• at 400 VA1• at 20 VA0.3• at 20 VA0.3• at 20 VA0.3• at 20 VA1• at 20 VA1.1• at 20 VA1.1• at 20 VA1.1• at 20 VA1.1• at 480 V Rated valueA1.1• at 480 V Rated valueA1.1 <td></td> <td></td> <td></td>			
• at 60 Hz 0.85 1.1 Auxiliary crouit: 0 Number of NC contacts 0 - per direction of rotation 0 - instantaneous contact 0 - lagging switching 0 Number of NC contacts 0 - lagging switching 0 Number of NC contacts 0 - lagging switching 0 Number of NC contacts 0 - per direction of rotation 0 - instantaneous contact 0 - leading contacts 0 - leading contact 0 Operating current of the auxiliary contacts at AC-12 maximum A Operating current of the auxiliary contacts at AC-13 - • at 200 V A 6 • at 200 V A 3 • at 200 V A 10 • at 200 V A 10 • at 200 V A 2 • at 200 V A 10 • at 200 V A 10 • at 200 V A 10 • at 200 V A 2 • at 110 V A 1 • at 200 V A 3 • at 200 V A 1 • at 200 V <t< td=""><td>-</td><td></td><td>0.9 1.1</td></t<>	-		0.9 1.1
Auxilary contacts • for auxiliary contacts - per direction of rotation - instantaneous contact - lagging switching 0 Number of NO contacts • for auxiliary contacts - lagging switching 0 Number of NO contacts • for auxiliary contacts - per direction of rotation 0 Operating current of the auxiliary contacts at AC-12 at 230 V at 24 V <tr< td=""><td></td><td></td><td></td></tr<>			
Number of NC contacts for auxiliary contacts per direction of rotation instantaneous contact lagging switching 0 Number of NO contacts 0 - lagging switching 0 Number of NO contacts 0 • for auxiliary contacts 0 - per direction of rotation 0 - instantaneous contact 0 - leading contact 0 Product expansion Auxiliary switch Ves Operating current of the auxiliary contacts at AC-12 A maximum A 10 Operating current of the auxiliary contacts at AC-15 Image: Contact at a tax tax tax tax tax tax tax tax t	• at 60 Hz		0.85 1.1
• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- lagging switching0Number of NO contacts0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- leading contact0Operating current of the auxiliary contacts at AC-12 maximumNOperating current of the auxiliary contacts at AC-15 • at 230 VA63• at 400 VA03Operating current of the auxiliary contacts at AC-13 • at 230 VA• at 230 VA• at 200 VA• at 400 V Rated valueA• at 400 V Rated valueA<		_	
	Number of NC contacts		
	 for auxiliary contacts 		
	— per direction of rotation		0
Number of NO contacts Image: mathematical status • for auxiliary contacts 0 - 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 maximum A Operating current of the auxiliary contacts at AC-15 - • at 230 V A 6 • at 400 V A 3 Operating current of the auxiliary contacts at DC-13 - • at 20 V A 10 • at 20 V A 10 • at 20 V A 2 • at 20 V A 10 • at 20 V A 10 • at 20 V A 10 • at 20 V A 0.3 Contact reliability of the auxiliary contacts - 1 error per 100 million operating cycles U//CSA ratings: - - - Full-load current (FLA) for three-phase AC motor - - • at 480 V Rated value A 11 • at 600 V Rated value <t< td=""><td>— instantaneous contact</td><td></td><td>0</td></t<>	— instantaneous contact		0
• for auxiliary contactsImage: contact of rotation0— per direction of rotation0— instantaneous contact0— leading contact0— leading contact0Product expansion Auxiliary switchYesOperating current of the auxiliary contacts at AC-12 maximumA1010Operating current of the auxiliary contacts at AC-15 • at 230 VA• at 230 VA• at 400 VAOperating current of the auxiliary contacts at DC-13 • at 24 VA• at 24 VA• at 20 VA	— lagging switching		0
	Number of NO contacts	-	
Instantaneous contact0- instantaneous contact0Product expansion Auxiliary switchYesOperating current of the auxiliary contacts at AC-12 maximumA010Operating current of the auxiliary contacts at AC-15 • at 230 VA63Operating current of the auxiliary contacts at AC-15-• at 230 VA• at 400 VAOperating current of the auxiliary contacts at DC-13 • at 400 VA• at 24 VA• at 24 VA• at 10 VA• at 20 VA• at 80 V Rated valueA• at 480 V Rated valueA• at 480 V Rated valueA• at 600 V Rate	 for auxiliary contacts 		
Indication of the auxiliary switch0Product expansion Auxiliary switchYesOperating current of the auxiliary contacts at AC-12 maximumA10Operating current of the auxiliary contacts at AC-15A• at 230 VA• at 400 VAOperating current of the auxiliary contacts at DC-13 • at 400 VA• at 24 VA• at 60 VA• at 10 VA• at 220 VA• at 220 VA• at 24 VA• at 220 VA• at 24 VA• at 220 VA• at 200 V Rated valueA• at 480 V Rated valueA• at 480 V Rated valueA• at 600 V Rated valueA• at 300 V Rated valueA	- per direction of rotation		0
Product expansion Auxiliary switch Yes Operating current of the auxiliary contacts at AC-12 maximum A 10 Operating current of the auxiliary contacts at AC-15 A 6 • at 230 V A 6 • at 400 V A 3 Operating current of the auxiliary contacts at DC-13 - • at 24 V A 10 • at 220 V A 0.3 Contact reliability of the auxiliary contacts - • at 200 V A 1 • at 600 V Rated value A 11 • at 600 V Rated value A 11 • at 600 V Rated value A 11 • for single-phase AC mot	— instantaneous contact		0
Operating current of the auxiliary contacts at AC-12 maximumA10Operating current of the auxiliary contacts at AC-15 • at 230 VA6• at 230 VA6• at 400 VA3Operating current of the auxiliary contacts at DC-13 • at 24 VA10• at 220 VA1• at 220 VA0.3Contact reliability of the auxiliary contacts· · · · · · · · · · · · · · · · · · ·	— leading contact		0
maximumImage: constant of the auxiliary contacts at AC-15Image: constant of the auxiliary contacts at AC-15• at 230 VA6• at 400 VA3Operating current of the auxiliary contacts at DC-13Image: constant of the auxiliary contacts at DC-13• at 24 VA10• at 24 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contactsVU/CSA ratings:VU/CSA ratings:Full-load current (FLA) for three-phase AC motor• at 480 V Rated valueA11• at 600 V Rated valueA11• at 600 V Rated valueA11• of or single-phase AC motor at 110/120 V Ratedmetric0.5	Product expansion Auxiliary switch	-	Yes
Operating current of the auxiliary contacts at AC-15A6• at 230 VA6• at 400 VA3Operating current of the auxiliary contacts at DC-13A10• at 24 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3UL/CSA ratings:Full-load current (FLA) for three-phase AC motor• at 480 V Rated valueA11• at 600 V Rated valueA11• at 600 V Rated valueA11• of the auxiliary contactsI11• of the auxiliary contactsII• of the a	Operating current of the auxiliary contacts at AC-12	А	10
• at 230 VA6• at 400 VA3Operating current of the auxiliary contacts at DC-13-• at 24 VA10• at 24 VA2• at 60 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contactsUL/CSA ratings:Full-load current (FLA) for three-phase AC motor• at 480 V Rated valueA11• at 480 V Rated valueA11• at 600 V Rated valueA11• for single-phase AC motor at 110/120 V Ratedmetric0.5	maximum		
A at 400 VA3• at 400 VA3Operating current of the auxiliary contacts at DC-13-• at 24 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contacts-UL/CSA ratings:-Full-load current (FLA) for three-phase AC motorA11• at 480 V Rated valueA11• at 600 V Rated valueA11• at 600 V Rated valueA11• for single-phase AC motor at 110/120 V Ratedmetric0.5	Operating current of the auxiliary contacts at AC-15		
Operating current of the auxiliary contacts at DC-13Image: Contact at 24 VA10• at 24 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contactsUL/CSA ratings:Full-load current (FLA) for three-phase AC motor• at 480 V Rated valueA11• at 600 V Rated valueA11• at 600 V Rated valueA11• for single-phase AC motor at 110/120 V Ratedmetric0.5	• at 230 V	А	6
• at 24 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3UL/CSA ratings:UL/CSA ratings:Full-load current (FLA) for three-phase AC motor • at 480 V Rated valueA11• at 600 V Rated valueA11• at 600 V Rated valueA11• for single-phase AC motor at 110/120 V Ratedmetric0.5	● at 400 V	А	3
• at 60 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contacts< 1 error per 100 million operating cyclesUL/CSA ratings:UL/CSA ratings:Full-load current (FLA) for three-phase AC motorA11• at 480 V Rated valueA11• at 600 V Rated valueA11• at 600 V Rated valueA11yielded mechanical performance [hp]metric0.5	Operating current of the auxiliary contacts at DC-13	-	
 at 110 V at 220 V A 0.3 Contact reliability of the auxiliary contacts < 1 error per 100 million operating cycles UL/CSA ratings: UL/CSA ratings: Full-load current (FLA) for three-phase AC motor at 480 V Rated value A 11 at 600 V Rated value A 11 yielded mechanical performance [hp] for single-phase AC motor at 110/120 V Rated metric 0.5 	● at 24 V	А	10
• at 220 V A 0.3 Contact reliability of the auxiliary contacts < 1 error per 100 million operating cycles	• at 60 V	А	2
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 A • at 600 V Rated value A • at 600 V Rated value A • for single-phase AC motor at 110/120 V Rated metric 0.5	• at 110 V	А	1
UL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value A 11 yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Rated metric 0.5	• at 220 V	А	0.3
Full-load current (FLA) for three-phase AC motor A 11 • at 480 V Rated value A 11 • at 600 V Rated value A 11 yielded mechanical performance [hp]	Contact reliability of the auxiliary contacts		< 1 error per 100 million operating cycles
Full-load current (FLA) for three-phase AC motor A 11 • at 480 V Rated value A 11 • at 600 V Rated value A 11 yielded mechanical performance [hp]	UL/CSA ratings:		
• at 600 V Rated value A 11 yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Rated metric 0.5			
yielded mechanical performance [hp] metric 0.5	• at 480 V Rated value	А	11
yielded mechanical performance [hp] metric 0.5	• at 600 V Rated value	А	11
• for single-phase AC motor at 110/120 V Rated metric 0.5			
		metric	0.5
		hp	

 for single-phase AC motor at 230 V Rated 	metric	2	
value	hp	4.5	
 for three-phase AC motor at 200/208 V Rated value 	metric hp	1.5	
 for three-phase AC motor at 220/230 V Rated 	metric	3	
value	hp	č	
 for three-phase AC motor at 460/480 V Rated 	metric	7.5	
value	hp		
 for three-phase AC motor at 575/600 V Rated 	metric	10	
value	hp		
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600	
Short-circuit:			
Design of the fuse link			
 for short-circuit protection of the main circuit 			
— with type of assignment 1 required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A	
— with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE:	
		25 A	
 for short-circuit protection of the auxiliary switch 		fuse gL/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	mm	68	
Width	mm	90	
Depth	mm	73	
Required spacing	_		
 with side-by-side mounting 			
— forwards	mm	6	
— Backwards	mm	0	
— upwards	mm	6	
— downwards	mm	6	
— at the side	mm	6	
 for grounded parts 			
— 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
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6

Connections/ Terminals:		
Type of electrical connection		
 for main current circuit 		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of connectable conductor cross-section		
 for main contacts 		
— single or multi-stranded		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (0,5 4 mm²)
 — finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for main contacts 		2x (20 16), 2x (18 14)
 for auxiliary contacts 		
— single or multi-stranded		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 — finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 16), 2x (18 14)
Apparent pick-up power of the magnet coil with AC		
• at 50 Hz	V·A	37

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	FIT	100
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		S00
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 maximum	m	2 000

 during operation 	on	°C	-25 +60		
 during storage 		°C	-55 +80		
Certificates/ approv	als:				
General Product	t Approval		Declaration of Conformity	Test Certificates	
CSA		EHC	EG-Konf.	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	Special Test Certificate
Shipping Approv	/al				
ABS	B U R E A U VERITAS	ŮŇ DNV DNV	GL	Lloyd's Kegister Lrs	PRS
Shipping Approv	/al	other			
RINA	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)

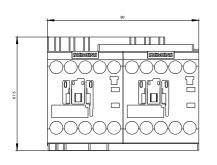
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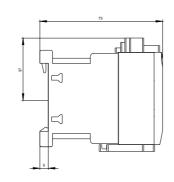
Cax online generator

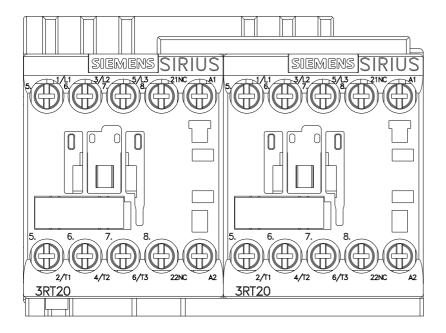
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA23178XB301AF0

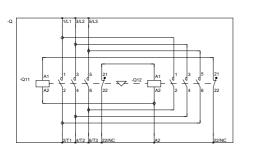
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA23178XB301AF0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA23178XB301AF0&lang=en









REVERSING COMB. SZ S00

WENDEKOMBINATION BGR. S00

last modified:

11.03.2015