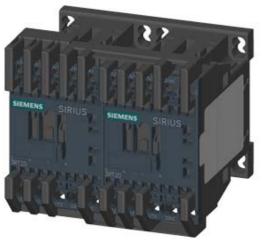
SIEMENS

Data sheet

3RA2316-8XB30-2AP0



REV. COMB., AC3, 4KW/400V AC230V, 50/60HZ, 3-POLE, SZ S00 SPRING-LOADED TERMINAL ELECTR. AND MECH. INTERLOCK

product brand name	SIRIUS		
Product designation	reversing contactor assembly 3RA23		
Manufacturer article number			
 1 of the supplied contactor 	3RT2016-2AP02		
 2 of the supplied contactor 	3RT2016-2AP02		
 of the supplied RH assembly kit 	<u>3RA2913-2AA2</u>		

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:				

Main Crout.	
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 Rated value	А	18
— at 400 V at ambient temperature 60 °C Rated value	A	16
• at AC-2 at 400 V Rated value	А	7
• at AC-3		
— at 400 V Rated value	А	9
• 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	4
• at AC-4 at 400 V Rated value	kW	4
Operating power		
• at AC-3		
— at 400 V Rated value	kW	4
— at 500 V Rated value	kW	4.5
— at 690 V Rated value	kW	5.5
Operating frequency		
• at AC-3 maximum	1/h	750

Control circuit/ Control: Image Products Control supply voltage 1 with AC AC • at 50 Hz Rated value V 230 Operating range factor control supply voltage rated value of the magnet coll with AC V 230 • at 50 Hz Rated value V 230 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 50 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 Auxiliary contacts 0	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 230 Operating range factor control supply voltage rated value of the magnet coll with AC • at 50 Hz 0.8 1.1 • at 50 Hz 0.8 1.1 0.8 1.1 Auxiliary contacts • for auxiliary contacts 0 • per direction of rotation 0 0 - instantaneous contact 0 0 - leading switching 0 0 Number of NC contacts 0 0 • for auxiliary contacts 0 0 - leading contact 0 0 - leading contact 0 0 • for auxiliary contacts 0 0 • for auxiliary contacts 0 0 - leading contact 0 0 Operating current of the auxiliary contacts at AC-12 maximum A 10 • at 230 V A 6 3 • at 20 V A 10 3 • at 20 V A 10 3 • at 20 V A 10 3 • at 60 V A 2 3 • at 20 V A 1 3 • at 80 V A			
Control supply voltage 1 with AC V 230 • at 60 Hz Rated value V 230 Operating range factor control supply voltage rated value of the magnet coll with AC V 230 • at 50 Hz 0.81.1 0.81.1 • at 60 Hz 0.81.1 0.81.1 Auxiliary circuit: 0.81.1 0.81.1 Auxiliary circuit: 0 0 • for auxiliary contacts 0 0 - lagging switching 0 0 • for auxiliary contacts 0 0 - per direction of rotation 0 0 - instantaneous contact 0 0 - per direction of rotation 0 0 - instantaneous contact 0 0 - per direction of rotation 0 0 - instantaneous contact 0 0 - leading contacts 0 0 - leading contact 0 0 Operating current of the auxiliary contacts at AC-12 A at 230 V A 3 Operating current of the auxiliary contacts at DC-13 - • at 200 V A 1 • at 210 V A 10 • at 220 V A 3.3 <t< td=""><td></td><td>_</td><td></td></t<>		_	
• at 50 Hz Rated valueV230• at 60 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coil with AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1Auxiliary circuit:0.8 1.1Number of NC contacts0• or auxiliary contacts0- per direction of rotation0- instantaneous contact0- lagging switching0Number of NC contacts0• for auxiliary contacts0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- leading contacts0• for auxiliary contacts0• for auxiliary contacts0• for auxiliary contacts at AC-150• at 230 VA• at 230 VA• at 230 VA• at 24 VA• at 20 V Rated valueA• at 600 V Rated valueA• at 200 VA• at 600 V Rated valueA• at			AC
at 60 Hz Rated value V 230 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 - 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 maximum A Operating current of the auxiliary contacts at AC-12 maximum A Operating current of the auxiliary contacts at AC-13 - • at 400 V A 3 Operating current of the auxiliary contacts at AC-13 - • at 400 V A 1 • at 60 V A 1 • at 20 V A 0.3 Cottact reliability of the auxiliary contacts -			
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 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 - 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 3 Operating current of the auxiliary contacts at DC-31 - • at 20 V A 1 • at 60 V A 2 • at 110 V A 1 • at 22 V A 0.3	• at 50 Hz Rated value	V	230
value of the magnet coil with AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1Auxiliary contacts0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- lagging switching0Number of NC contacts0- lagging switching0Number of NO contacts0- per direction of rotation0- instantaneous contact0- lagging switching0Number of NO contacts0- per direction of rotation0- instantaneous contact0- leading contacts0- leading contact0- leading contact0- leading contact at AC-12Amaximum10Operating current of the auxiliary contacts at AC-12Aat 230 VA6at 240 VA3- at 230 VA10- at 240 VA10- at 240 VA2- at 240 VA2- at 240 VA10- at 220 VA0.3- at 220 VA0.3- at 240 VA9- at 480 V Rated valueA9- at 480 V Rated valueA9- at 480 V Rated valueA9- of 60 V Rated valueA9- of 60 V Rated valueA9- of 60 V Rated valueA0.33- at 460 V	• at 60 Hz Rated value	V	230
• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1Auxiliary circuit:Number of NC contacts• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- lagging switching0• for auxiliary contacts0• for auxiliary contacts0- per direction of rotation0- lagging switching0• for auxiliary contacts0• for auxiliary contacts0• for auxiliary contacts0• per direction of rotation0- per direction of rotation0- instantaneous contact0- leading contact0• for auxiliary contacts at AC-1210maximum10Operating current of the auxiliary contacts at AC-12A• at 230 VA6• at 230 VA6• at 400 VA3• at 400 VA10• at 60 VA2• at 110 VA1• at 220 VA0.3• at 220 VA0.3• at 480 V Rated valueA9• at 480 V Rated valueA <t< td=""><td></td><td></td><td></td></t<>			
• at 60 Hz 0.85 1.1 Auxiliary circuit: 0 • for auxiliary contacts 0 - per direction of rotation 0 - instantaneous contact 0 - lagging switching 0 Number of NC contacts 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 - instantaneous contact 0 - leading contact 0 Operating current of the auxiliary contacts at AC-12 maximum 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 400 V A 3 Operating current of the auxiliary contacts at DC-13 - • at 220 V A 10 • at 220 V A 0.3 Contact reliability of three-phase AC motor - • at 480 V Rated value A 9 • at 480 V Rated value A 9 • at 480 V Rated value A 9 • yielded mechanical perf	-		
Auxilary circuit: Number of NC contacts 0 - per direction of rotation 0 - instantaneous contact 0 - lagging switching 0 Number of NO contacts 0 - lagging switching 0 Number of NO contacts 0 - per direction of rotation 0 - instantaneous contact 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 230 V A • at 400 V A 3 Operating current of the auxiliary contacts at DC-13 • at 24 V A 10 • at 230 V A 6 2 • at 400 V A 2 2 • at 60 V A 2 2 • at 110 V A 1 3 • at 220 V A 0.3 3	• at 50 Hz		
Number of NC contacts 0	• 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 maximumAOperating current of the auxiliary contacts at AC-15 • at 230 VA• at 240 VA• at 240 VA• at 240 VA• at 250 VA• at 20 VA• at 480 V Rated valueA• at 480 V Rated valueA• at 480 V Rated valueA• at 480 V	Auxiliary circuit:		
	Number of NC contacts		
	 for auxiliary contacts 		
	— per direction of rotation		0
Number of NO contacts Image: Product spansion Auxiliary contacts - per direction of rotation - instantaneous contact - leading contact 0 - leading contact - leading contact 0 Product expansion Auxiliary switch - leading current of the auxiliary contacts at AC-12 maximum A 10 Operating current of the auxiliary contacts at AC-15 • at 230 V • at 400 V A 4 3 A 10 Operating current of the auxiliary contacts at DC-13 • at 24 V • at 60 V • at 60 V • at 20 V • A 10 • at 400 V A 1 • at 20 V • A 10 • at 20 V • A 10 • at 60 V • at 400 V A 1 • at 20 V • A 1 • at 40 • at 60 V • at 400 V A 1 • at 20 V • A 1 • at 40 • at 400 V • A 1 • at 400 V A 1 • at 400 V • A	— instantaneous contact		0
• for auxiliary contactsImage: contact of rotation0— per direction of rotation0— instantaneous 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 VA• at 400 VA• at 24 VA• at 24 VA• at 20 VA• at 480 V Rated valueA• at 480 V Rated valueA• at 480 V Rated valueA• at 600 V Rated valueA• at 600 V Rated valueA• oto V Rated valueA• oto V Rated valueA• oto V Rated valueA• for single-phase AC motor at 110/120 V Ratedmetric• for single-ph	— lagging switching		0
	Number of NO contacts	_	
- instantaneous contact 0 - leading contact 0 Product expansion Auxiliary switch Yes Operating current of the auxiliary contacts at AC-12 A maximum A Operating current of the auxiliary contacts at AC-15 - • at 230 V A • at 400 V A Operating current of the auxiliary contacts at DC-13 - • at 400 V A • at 24 V A • at 60 V A • at 10 V A • at 220 V A • at 220 V A • at 20 V A • at 10 V A • at 20 V A • at 80 V Rated value A • at 480 V Rated value A • at 480 V Rated value A • at 600 V Rated value <t< td=""><td> for auxiliary contacts </td><td></td><td></td></t<>	 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 VA• at 400 VA• at 400 VA• at 400 VA• at 24 VA• at 25 VA• at 22 VA• at 220 VA• at 220 VA• at 220 VA• at 24 VA• at 25 VA• at 20 VA• at 480 V Rated valueA• at 480 V Rated valueA• at 480 V Rated valueA• at 600 V Rated valueA• of single-phase AC motor at 110/120 V Ratedmetric• for single-phase AC motor at 110/120 V Ratedmetric• for single-	— 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 400 V A 3 Operating current of the auxiliary contacts at DC-13 - • at 24 V A 10 • at 250 V A 2 • at 10 V A 2 • at 220 V A 0.3 Contact reliability of the auxiliary contacts - • at 220 V A 0.3 Contact reliability of three-phase AC motor • at 480 V Rated value A 9 • yielded mechanical performance [hp] - • for single-phase AC motor at 110/120 V Rated metric 0.33	— 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 VA2• at 110 VA1• at 220 VA0.3Contact reliability of the auxiliary contacts Full-load current (FLA) for three-phase AC motor • at 480 V Rated valueA7.6• at 600 V Rated valueA9• yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V RatedMetric0.33	— leading contact		0
maximumImage: current of the auxiliary contacts at AC-15Image: current of the auxiliary contacts at AC-15• at 230 VA6• at 400 VA3Operating current 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 contactsV Contact reliability of the auxiliary contactsVUCSA ratings:Full-load current (FLA) for three-phase AC motor• at 480 V Rated valueA7.6• at 600 V Rated valueA9• jelded mechanical performance [hp]metric• for single-phase AC motor at 110/120 V Ratedmetric0.33	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 valueA7.6• at 600 V Rated valueA9yielded mechanical performance [hp]metric0.33	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 valueA• at 600 V Rated valueA• at 600 V Rated valueA• for single-phase AC motor at 110/120 V Ratedmetric• for single-phase AC motor at 110/120 V Ratedmetric• for single-phase AC motor at 110/120 V Ratedmetric	maximum		
A tool 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 motor-• at 480 V Rated valueA7.6• at 600 V Rated valueA9• for single-phase AC motor at 110/120 V Ratedmetric0.33	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 contactsV Contact reliability of the auxiliary contactsVI/CSA ratings:VI/CSA ratings:Full-load current (FLA) for three-phase AC motor• at 480 V Rated valueA7.6• at 600 V Rated valueA9• at 600 V Rated valueA9• for single-phase AC motor at 110/120 V Ratedmetric• for single-phase AC motor at 110/120 V Ratedmetric	• 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 valueA7.6• at 480 V Rated valueA9yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Ratedmetric0.33	● 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 motorA7.6• at 480 V Rated valueA9• at 600 V Rated valueA9• for single-phase AC motor at 110/120 V Ratedmetric0.33	Operating current of the auxiliary contacts at DC-13		
 at 110 V at 220 V A Contact reliability of the auxiliary contacts Contact reliability of the auxiliary contacts < 1 error per 100 million operating cycles < 1 error per 100 million operating cycles 	• at 24 V	А	10
• at 220 VA0.3Contact reliability of the auxiliary contacts< 1 error per 100 million operating cyclesUL/CSA ratings:Full-load current (FLA) for three-phase AC motor • at 480 V Rated valueA7.6• at 600 V Rated valueA9yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Ratedmetric0.33	● 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 7.6 • at 600 V Rated value A 9 vielded mechanical performance [hp] metric 0.33	• at 110 V	А	1
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 0.33	• at 220 V	А	0.3
Full-load current (FLA) for three-phase AC motor A 7.6 • at 480 V Rated value A 9 • at 600 V Rated value A 9 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 7.6 • at 480 V Rated value A 9 • at 600 V Rated value A 9 yielded mechanical performance [hp]	UL/CSA ratings:		
• at 600 V Rated value A 9 yielded mechanical performance [hp] metric 0.33			
yielded mechanical performance [hp] metric 0.33	• at 480 V Rated value	А	7.6
• for single-phase AC motor at 110/120 V Rated metric 0.33	• at 600 V Rated value	А	9
• for single-phase AC motor at 110/120 V Rated metric 0.33	yielded mechanical performance [hp]		
	 for single-phase AC motor at 110/120 V Rated 	metric	0.33
		hp	

 for single-phase AC motor at 230 V Rated value 	metric hp	1
 for three-phase AC motor at 200/208 V Rated value 	metric hp	2
 for three-phase AC motor at 220/230 V Rated value 	metric hp	3
 for three-phase AC motor at 460/480 V Rated value 	metric hp	5
 for three-phase AC motor at 575/600 V Rated value 	metric hp	7.5
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 LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
 for short-circuit protection of the auxiliary switch required 		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	84
Width	mm	90
Depth	mm	83
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 		
 for grounded parts forwards 	mm	6
		6 0
— forwards	mm	
— forwards — Backwards	mm mm	0
— forwards — Backwards — upwards	mm mm mm	0 6

— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6

Type of electrical connection		
 for main current circuit 		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Type of connectable conductor cross-section	_	
• for main contacts		
— single or multi-stranded		2x (0,5 4 mm²)
— finely stranded with core end processing		2x (0.5 2.5 mm²)
 finely stranded without core end processing 		2x (0.5 2.5 mm²)
 for AWG conductors for main contacts 		1x (20 12)
 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)
 for AWG conductors for auxiliary contacts 		2x (20 14)
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	27

	1 000 000
%	40
%	75
FIT	100
У	20
	finger-safe
	S00
	No
	No
	No
	% FIT

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		

General Proc	luct Approval		Declaration of Conformity	Test Certificates	
CSA CSA		EHC	EG-Konf.	Special Test Certificate	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>
Shipping App	proval				
ACAN BURE PE		ĴÅ	GL	Lloyd's Register	

Shipping Approval		other		
RINA	RMRS	Environmental Confirmations	<u>other</u>	

GL

LRS

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ABS

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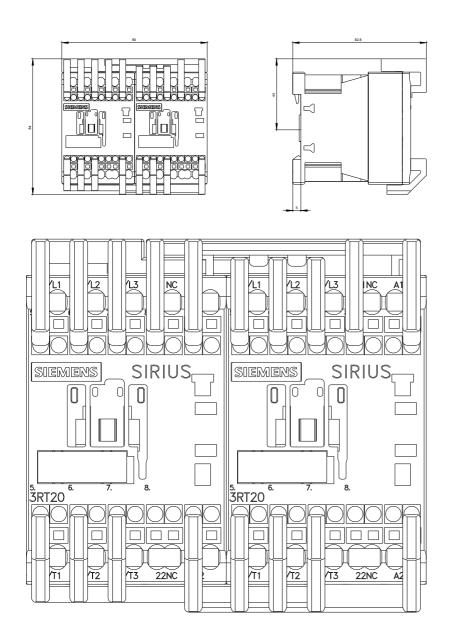
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

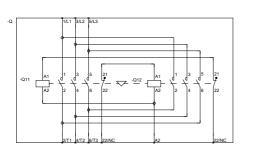
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REVERSING COMB. SZ S00

WENDEKOMBINATION BGR. S00

last modified:

11.03.2015