SIEMENS

Data sheet

3RA2315-8XB30-1AF0

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



product brand name	SIRIUS
Product designation	reversing contactor assembly 3RA23
Manufacturer article number	
 1 of the supplied contactor 	<u>3RT2015-1AF02</u>
 2 of the supplied contactor 	<u>3RT2015-1AF02</u>
 of the supplied RH assembly kit 	3RA2913-2AA1

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 Rated value	A	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	7
● at AC-4 at 400 V Rated value	А	6.5
Operating current with 1 current path	_	
• at DC-1		
— at 24 V Rated value	А	15
— at 110 V Rated value	А	1.5
● at DC-3 at DC-5		
— at 24 V Rated value	А	15
— at 110 V Rated value	А	0.1
Operating current with 2 current paths in series	_	
● at DC-1		
— at 24 V Rated value	А	15
— at 110 V Rated value	А	8.4
● at DC-3 at DC-5		
— at 110 V Rated value	А	0.25
— at 24 V Rated value	А	15
Operating current with 3 current paths in series	_	
● at DC-1		
— at 24 V Rated value	А	15
— at 110 V Rated value	А	15
● at DC-3 at DC-5		
— at 110 V Rated value	А	15
— at 24 V Rated value	А	15
Operating power	_	
• at AC-2 at 400 V Rated value	kW	3
• at AC-4 at 400 V Rated value	kW	3
Operating power		
• at AC-3		
— at 400 V Rated value	kW	3
— at 500 V Rated value	kW	3.5
— at 690 V Rated value	kW	4
Operating frequency		
• at AC-3 maximum	1/h	750

Control cruch/ Control: Type of voltage of the control supply voltage AC Control cupply voltage 1 with AC v • at 50 Hz Rated value V • at 50 Hz Rated value V • at 50 Hz 0.8 1.1 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 50 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 Auxiliary contacts 0 • per direction of rotation 0 - instantaneous contact 0 - leaging switching 0 Number of NC contacts 0 • for auxiliary contacts 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 • at 200 V A 6 • at 200 V A 10 • at 60 V A 10	No-load switching frequency	1/h	1 500
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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 0.8 1.1 0.8 1.1 • at 50 Hz 0.8 1.1 0.85 1.1 • at 60 Hz 0 0 • for auxiliary contacts 0 0 - lagging switching 0 0 • for auxiliary contacts 0 0 - leading contact 0 0 - ending contacts 0 0 - leading contact 0 0 - at 200 V A 3 - at 60 V A 3 Operating current of the auxiliary contacts at DC-13 - - at 60 V A 3 - at 20 V A 10 - at 20 V A 0.3 - Contact reliability of the auxiliary contacts < 1 error per 100 million operating			10
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Auxiliary contacts • for auxiliary contacts - per direction of rotation - instantaneous contact - lagging switching 0 Number of NO contacts • for auxiliary contacts - per direction of rotation - lagging switching 0 Number of NO contacts • for auxiliary contacts - per direction of rotation - per direction of rotation - per direction of rotation - instantaneous contact 0 - leading contact Operating current of the auxiliary contacts at AC-12 maximum Operating current of the auxiliary contacts at AC-15 • at 230 V • at 400 V Operating current of the auxiliary contacts at DC-13 • at 24 V • at 400 V A 0 • at 400 V A • at 230 V • at 24 V • at 20 V • at 220 V A • at 220 V A • at 220 V A • at 480 V Rated value • at 480 V Ra			
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• for auxiliary contacts0- per direction of rotation0- lagging switching0Number of NO contacts0• for auxiliary contacts0- per direction of rotation0- instantaneous contact0- instantaneous contact0- per direction of rotation0- leading contact0Operating current of the auxiliary contacts at AC-12 maximumNOperating current of the auxiliary contacts at AC-15 • at 230 VA• at 400 VA• at 420 VA• at 220 VA• at 240 VA• at 250 VA• at 260 VA• at 260 VA• at 480 V Rated valueA• at 480 V Rated valueA• at 480 V Rate		_	
	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 24 V A 10 • at 60 V A 2 • at 110 V A 1. • at 220 V A 0.3 Contact reliability of the auxiliary contacts <	— 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 contact 0 - leading contact 0 Product expansion Auxiliary switch Yes Operating current of the auxiliary contacts at AC-12 A maximum 0 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 0 A • at 24 V A • at 60 V A • at 10 V A • at 20 V A • at 20 V A • at 20 V A • at 10 V A • at 20 V A • at 480 V Rated value A • at 480 V Rated value A • at 600 V Rated value A <	 for auxiliary contacts 		
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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 contactsIFull-load current (FLA) for three-phase AC motor • at 480 V Rated valueA4.8• at 600 V Rated valueA4.8• at 600 V Rated valueA4.8• of of single-phase AC motor at 110/120 V Ratedmetric0.25	— leading contact		0
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• 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 valueA4.8• at 600 V Rated valueA6.1yielded mechanical performance [hp]metric• for single-phase AC motor at 110/120 V Ratedmetric0.25	maximum		
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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 contactsImage: Contact reliability of the auxiliary contactsUL/CSA ratings:Full-load current (FLA) for three-phase AC motorA4.8• at 480 V Rated valueA6.1yielded mechanical performance [hp]metric0.25	• 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 valueA4.8• at 600 V Rated valueA6.1yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Ratedmetric0.25	• 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 motorA• at 480 V Rated valueA4.8• at 600 V Rated valueA6.1yielded mechanical performance [hp]metric0.25	Operating current of the auxiliary contacts at DC-13		
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• 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 0.25	• at 110 V	А	1
UL/CSA ratings: Full-load current (FLA) for three-phase AC motor A 4.8 • at 480 V Rated value A 4.8 • at 600 V Rated value A 6.1 yielded mechanical performance [hp] metric 0.25	• at 220 V	А	0.3
Full-load current (FLA) for three-phase AC motor A 4.8 • at 480 V Rated value A 4.8 • at 600 V Rated value A 6.1 yielded mechanical performance [hp] For single-phase AC motor at 110/120 V Rated metric 0.25	Contact reliability of the auxiliary contacts		< 1 error per 100 million operating cycles
Full-load current (FLA) for three-phase AC motor A 4.8 • at 480 V Rated value A 4.8 • at 600 V Rated value A 6.1 yielded mechanical performance [hp] For single-phase AC motor at 110/120 V Rated metric 0.25	UL/CSA ratings:		
• at 600 V Rated value A 6.1 yielded mechanical performance [hp] metric 0.25			
yielded mechanical performance [hp] metric 0.25	• at 480 V Rated value	А	4.8
• for single-phase AC motor at 110/120 V Rated metric 0.25	• at 600 V Rated value	А	6.1
• for single-phase AC motor at 110/120 V Rated metric 0.25	yielded mechanical performance [hp]		
	• for single-phase AC motor at 110/120 V Rated	metric	0.25
		hp	

 for single-phase AC motor at 230 V Rated value 	metric hp	0.75
 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	2
value	hp	
 for three-phase AC motor at 460/480 V Rated 	metric	3
value	hp	
 for three-phase AC motor at 575/600 V Rated value 	metric hp	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	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	27

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

ature				
ration	°C	-25 +60		
age	°C	-55 +80		
rovals:				
duct Approval		Declaration of Conformity	Test Certificates	
	EHC	EG-Konf.	Special Test Certificate	<u>Type Test</u> Certificates/Test <u>Report</u>
proval				
B U R E A U VERITAS	JÅ DNV DNV	GL	Lloyd's Kegister LRS	PRS
proval	other			
RMRS	Environmental Confirmations	other		
	ration age rovals: duct Approval COULT OF OF OVAL	ration age °C age °C °C rovals: duct Approval CONSTRUCT Appro	ration age C -25 +60 C -55 +80 rovals: Declaration of Conformity Conf	ration age C -25 +60 C -55 +80 rovals: Auct Approval Declaration of Conformity Special Test Confinential Certificate Special Test Certificate Certificate Certificate LRS DNV Certificate

Further information

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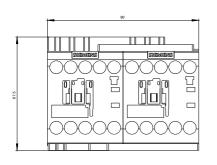
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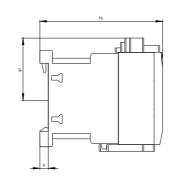
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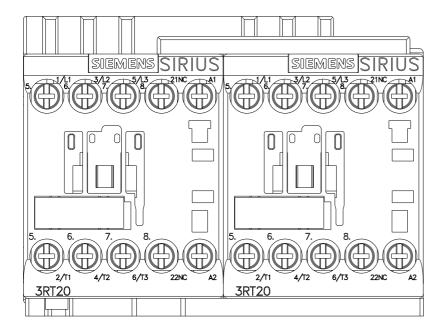
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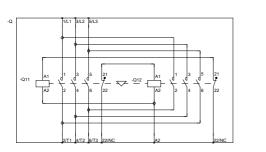
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA23158XB301AF0&lang=en









REVERSING COMB. SZ S00

WENDEKOMBINATION BGR. S00

last modified:

11.03.2015