SIEMENS

Data sheet

3RA2316-8XB30-1TP3

REV. COMBIN., AC3, 4KW/400V AC 230V, 50/60 HZ, 3-POLE, SZ S00 SCREW TERMINAL ELECTR. AND MECH. INTERLOCK



Figure similar

product brand name	SIRIUS
Product designation	reversing contactor assembly 3RA23
Manufacturer article number	
 1 of the supplied contactor 	<u>3RT2018-1TP01-0RA0</u>
 2 of the supplied contactor 	3RT2018-1TP01-0RA0
 of the supplied RH assembly kit 	<u>3RA2913-2AA1</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 		3 000 000
 of the contactor with added auxiliary switch 		3 000 000
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	15.4
— at 400 V at ambient temperature 60 °C Rated value	А	13.7
 at AC-2 at 400 V Rated value 	А	6
● at AC-3		
— at 400 V Rated value	А	7.7
 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	17.1
— at 110 V Rated value	А	1.8
• at DC-3 at DC-5		
— at 24 V Rated value	А	17.1
— at 110 V Rated value	А	0.12
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	А	17.1
— at 110 V Rated value	А	10.2
• at DC-3 at DC-5		
— at 110 V Rated value	А	0.3
— at 24 V Rated value	A	17.1
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	А	17.1
— at 110 V Rated value	А	17.1
• at DC-3 at DC-5		
— at 110 V Rated value	А	17.1
— at 24 V Rated value	А	17.1
Operating power		
at AC-2 at 400 V Rated value	kW	3.4
• at AC-4 at 400 V Rated value	kW	1.7
Operating power		
• at AC-3		
— at 400 V Rated value	kW	3.4
— at 500 V Rated value	kW	3.8
— at 690 V Rated value	kW	4.7
Operating frequency		
• at AC-3 maximum	1/h	642

No-load switching frequency	1/h	1 500
	1/11	1000
Control circuit/ Control:		
Type of voltage of the control supply voltage	_	AC
Control supply voltage 1 with AC		
• at 50 Hz Rated value	V	230
• at 50 Hz	V	218 237
Operating range factor control supply voltage rated value of the magnet coil with AC		
● at 50 Hz		0.95 1.03
Design of the surge suppressor		with varistor
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		
- per direction of rotation		0
— instantaneous contact		0
— lagging switching		0
Number of NO contacts	-	
 for auxiliary contacts 		
- 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	А	10
maximum		
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 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		< 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	6.5
• at 600 V Rated value	A	7.7
yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated	metric	0.28
value	hp	

 for single-phase AC motor at 230 V Rated value 	metric hp	0.85
	metric	1.7
 for three-phase AC motor at 200/208 V Rated value 	hp	1.7
 for three-phase AC motor at 220/230 V Rated 	metric	2.5
value	hp	
 for three-phase AC motor at 460/480 V Rated 	metric	4.3
value	hp	
 for three-phase AC motor at 575/600 V Rated 	metric	6.4
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 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 		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	0
 for grounded parts 		
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— at the side	mm	6
— at the side — downwards	mm mm	6

— 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

mbient temperature					
 during operation 		°C	-25 +70		
 during storage 		°C	-55 +80		
ertificates/ approvals:					
General Product Approval			Declaration of Conformity	Test Certificates	
	EHC		EG-Konf.	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	Special Test Certificate
Shipping Approval					
ABS	JÅ DNV DNV		G L 🛞	Llovd's Register LRS	PRS
Shipping Approval	other				
RINA RMRS	Environment Confirmation		<u>other</u>		

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

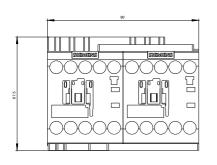
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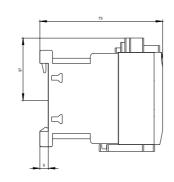
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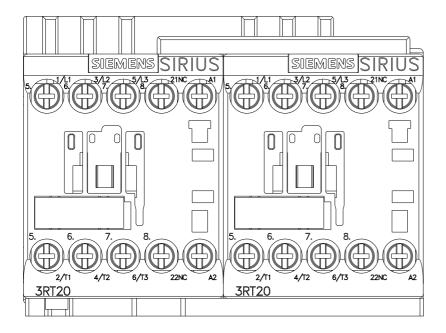
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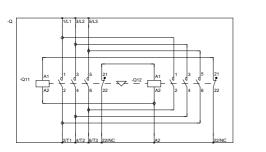
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA23168XB301TP3/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA23168XB301TP3&lang=en









REVERSING COMB. SZ S00

WENDEKOMBINATION BGR. S00

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