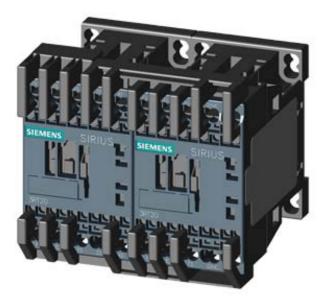
SIEMENS

Product data sheet

3RA2315-8XB30-2AF0



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

General technical data:			
Product brand name		SIRIUS	
product designation		reversing contactor assembly 3RA23	
Product function		reversing contactor	
Size of the contactor		S00	
Protection class IP / on the front		IP20	
Degree of pollution		3	
Insulation voltage / with degree of pollution 3 / rated value	V	690	
Installation altitude / at a height over sea level / maximum	m	2,000	
Ambient temperature			
during transport	°C	-55 80	
during storage	°C	-55 80	
during operating	°C	-25 60	
Resistance against shock		9.8g / 5 ms and 5.9g / 10 ms	
Impulse voltage resistance / rated value	kV	6	
Active power loss / per conductor / typical	W	0.4	
Item designation			
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		к	
according to DIN EN 61346-2		Q	

Manufacturer article number			
 1 / of the contactor included in the scope of supply 		3RT2015-2AF02	
 2 / of the contactor included in the scope of supply 		<u>3RT2015-2AF02</u>	
 of the RS applied assembly kit 		<u>3RA2913-2AA2</u>	
Mechanical operating cycles as operating time			
of the main contacts / typical		10,000,000	
 of the auxiliary contacts / typical 		10,000,000	
of the contactor / typical		10,000,000	
• of the contactor with added auxiliary switch block / typical		10,000,000	
Communication:			
Product function			
bus-communication		No	
 control circuit interface with IO link 		No	
Protocol / will be supported / AS interface protocol		No	
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 40 °C ambient temperature / rated value		18	
• at 60 °C ambient temperature / rated value		16	
• at AC-2 / at 400 V / rated value		7	
• at AC-3 / at 400 V / rated value		7	
• at AC-4 / at 400 V / rated value		6.5	
• with 1 current path / at DC-1			
• at 24 V / rated value		15	
• at 110 V / rated value		1.5	
 with 2 current paths in series / at DC-1 			
• at 24 V / rated value		15	
• at 110 V / rated value	А	8.4	
 with 3 current paths in series / at DC-1 			
• at 24 V / rated value	А	15	
• at 110 V / rated value	А	15	
• with 1 current path / at DC-3 / at DC-5			
• at 24 V / rated value	А	15	
• at 110 V / rated value	А	0.1	

• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	15
• at 110 V / rated value	А	0.25
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	15
• at 110 V / rated value	А	15
Service power	-	
• at AC-2 / at 400 V / rated value	kW	3
• 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
• at AC-4 / at 400 V / rated value	kW	1.15
Off-load operating frequency	1/h	15
Frequency of operation	-	
• at AC-1 / according to IEC 60947-6-2 / maximum	1/h	1,000
• at AC-2 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-3 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-4 / according to IEC 60947-6-2 / maximum	1/h	250
Control circuit:		
Design of activation	_	conventional
Type of voltage / of the controlled supply voltage	_	AC
Control supply voltage frequency	-	
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
• at 50 Hz / for AC / rated value	V	110
• at 60 Hz / for AC / rated value	V	110

the solenoid

• at 50 Hz / for AC

• at 60 Hz / for AC

Inductive power factor

with the pull-in power of the coilwith the pull-in power of the coil

Product extension / auxiliary switch

Operating range factor control supply voltage rated value / of

Apparent pull-in power / of the solenoid / for AC

Apparent holding power / of the solenoid / for AC

0.8 ... 1.1

0.85 ... 1.1

27

4.2

0.8

0.25

Yes

V·A

V۰A

Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles		
Number of NC contacts / for auxiliary contacts				
per direction of rotation		0		
instantaneous switching		0		
lagging switching		0		
Number of NO contacts / for auxiliary contacts				
per direction of rotation		0		
instantaneous switching		0		
leading switching		0		
Operating current / of the auxiliary contacts				
• at AC-12 / maximum	A	10		
• at AC-15				
• at 230 V	A	6		
• at 400 V	А	3		
• at DC-12				
• at 48 V	А	6		
• at 60 V	А	6		
• at 110 V	А	3		
• at 220 V	А	1		
• at DC-13				
• at 24 V	А	10		
• at 48 V	А	2		
• at 60 V	А	2		
• at 110 V	А	1		
• at 220 V	А	0.3		
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		
at type of coordination 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:				
Built in orientation		any		
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail		
Width	mm	90		
Height	mm	84		
Depth	mm	83		

mm	6
mm	0
mm	6
mm	6
mm	6
mm	6
mm	0
mm	6
mm	6
mm	6
mm	6
mm	0
mm	6
mm	6
mm	6
	mm mm mm mm mm mm mm mm mm mm

Design of the electrical connection			
for main current circuit		spring-loaded terminals	
 for auxiliary and control current circuit 		spring-loaded terminals	
Type of the connectable conductor cross-section			
for main contacts			
• solid		2x (0.5 4 mm²)	
• stranded		2x (0.5 4 mm²)	
finely stranded			
 with conductor end processing 		2x (0.5 2.5 mm²)	
 without conductor final cutting 		2x (0.5 2.5 mm²)	
 for AWG conductors / for main contacts 		1x (20 12)	
for auxiliary contacts			
• solid		2x (0.5 2.5 mm²)	
finely stranded			
 with conductor end processing 		2x (0.5 1.5 mm²)	
 without conductor final cutting 		2x (0.5 1.5 mm²)	
 for AWG conductors / for auxiliary contacts 		2x (20 14)	
Certificates/approvals:			
Verification of suitability		CE / UL / CSA / CCC	

General Product App	proval		Test Certific	ates	
(SA)	ROSTEST		Manufacture	ī	
Shipping Approval					
ABS	ĴÅ DNV DNV	GL	Lloyd's Kegister	PRS	RINA
Shipping Approval	other				
RMRS	other				
UL/CSA ratings					
yielded mechanical pe	erformance (hp)				
 for single-phase sq 	uirrel cage motors	3			
• at 110/120 V / ra	ated value		hp	0.25	
• at 230 V / rated	• at 230 V / rated value		hp	0.75	
 for three-phase squ 	 for three-phase squirrel cage motors 				
• at 200/208 V / ra	ated value		hp	1.5	
• at 220/230 V / ra	ated value		hp	2	
• at 460/480 V / ra	ated value		hp	3	
• at 575/600 V / ra	ated value		hp 5		
Operating current (FL	.A) / for three-pha	ase squirrel cage motors			
• at 480 V / rated val	lue		А	4.8	
• at 600 V / rated val	• at 600 V / rated value		А	6.1	
Contact rating design UL	Contact rating designation / for auxiliary contacts / according to UL			A600 / Q600	
Safety:					
B10 value / with high	demand rate				
according to SN 31920			1,000,000		
Failure rate (FIT value	e) / with low dema	and rate			
 according to SN 31 	according to SN 31920		FIT	100	
Proportion of dangero	ous failures				
• with low demand ra	ate / according to s	SN 31920	%	40	

Protection against electrical shock

• according to IEC 61508

• with high demand rate / according to SN 31920

T1 value / for proof test interval or service life

%

а

75

20

finger-safe

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

Industry Mall (Online ordering system)

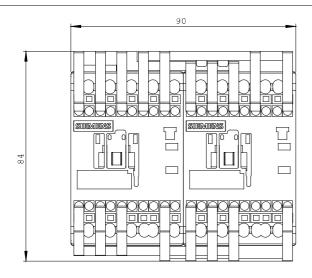
http://www.siemens.com/industrial-controls/mall

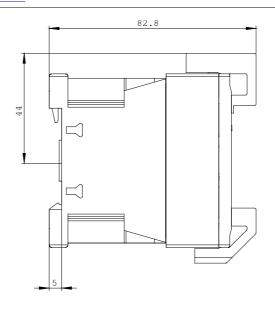
CAx-Online-Generator

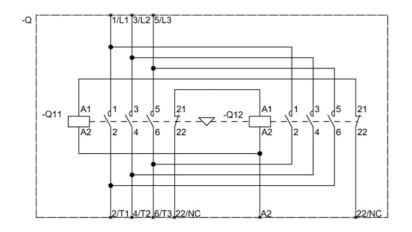
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2315-8XB30-2AF0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2315-8XB30-2AF0







last change:

Oct 24, 2011