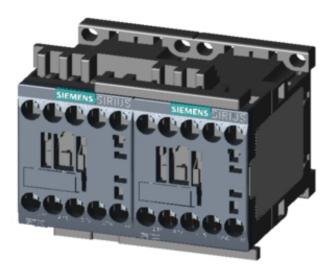
SIEMENS

Product data sheet

3RA2315-8XB30-1AP0



REV. COMB. AC3, 3KW/400V AC230V, 50/60 HZ, 3-POLE, SZ S00 SCREW 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		3RT2015-1AP02
 2 / of the contactor included in the scope of supply 		<u>3RT2015-1AP02</u>
 of the RS applied assembly kit 		<u>3RA2913-2AA1</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
Operational current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	А	18
• at 60 °C ambient temperature / rated value	А	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
• with 1 current path / at DC-1		
• at 24 V / rated value	А	15
• at 110 V / rated value	А	1.5
 with 2 current paths in series / at DC-1 		
• at 24 V / rated value	А	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	230
• at 60 Hz / for AC / rated value	V	230
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz / for AC		0.8 1.1
• at 60 Hz / for AC		0.85 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	27
Apparent holding power / of the solenoid / for AC	V·A	4.2
Inductive power factor		

• with the pull-in power of the coil

• with the pull-in power of the coil

0.8

0.25

Yes

Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Number of NC contacts / for auxiliary contacts		< Terror per too minion operating cycles
per direction of rotationinstantaneous switching		0 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	A	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:		
mounting position		any
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	90
Height	mm	68
Depth	mm	73

Distance, to be maintained, to the ranks assembly		
• forwards	mm	6
backwards	mm	0
• upwards	mm	6
downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, to earthed part		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, conductive elements		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
downwards	mm	6
• sidewards	mm	6

Connections:

Design of the electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Type of the connectable conductor cross-section	
for main contacts	
• solid	2 x (0.5 1.5 mm²), 2 x (0.75 2.5 mm²), 2 x (0.5 4 mm²)
• stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (0.5 4 mm²)
finely stranded	
with conductor 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 	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
finely stranded	
with conductor 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)
Certificates/approvals:	

Verification of suitability

CE / UL / CSA / CCC

General Product Approval		Declaration Conformity	of	Test Certificates	
GOST GOST		EG-Konf.		Special Test Certificate	<u>Type Test</u> Certificates/Test <u>Report</u>
Shipping Approval					
ABS BUREAU VERITAS		GL		Lloyd's Register Lrs	PRS
Shipping Approval	other				
RINA RMRS	<u>other</u>				
UL/CSA ratings					
yielded mechanical performance (hp)					
 for single-phase squirrel cage motors 					
• at 110/120 V / rated value		hp	0.25		
• at 230 V / rated value		hp	0.75		
• for three-phase squirrel cage motors					
• at 200/208 V / rated value		hp	1.5		
• at 220/230 V / rated value		hp	2		
• at 460/480 V / rated value		hp	3		
• at 575/600 V / rated value		hp	5		
Operating current (FLA) / for three-phase squ	irrel cage motors				
• at 480 V / rated value		А	4.8		
• at 600 V / rated value		А	6.1		
Contact rating designation / for auxiliary cont UL	tacts / according to		A600 / 0	2600	
Safety:					
B10 value / with high demand rate					
according to SN 31920			1,000,0	00	
Failure rate (FIT value) / with low demand rate	e				
according to SN 31920		FIT	100		
Proportion of dangerous failures					
• with low demand rate / according to SN 3192	20	%	40		
• with high demand rate / according to SN 319	920	%	75		
T1 value / for proof test interval or service life	9				
according to IEC 61508		а	20		
Protection against electrical shock			finger-s	afe	

Further information:

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

Industry Mall (Online ordering system)

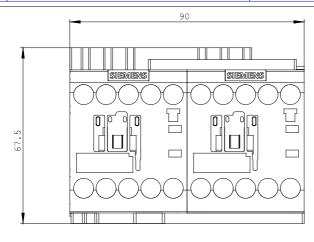
http://www.siemens.com/industrial-controls/mall

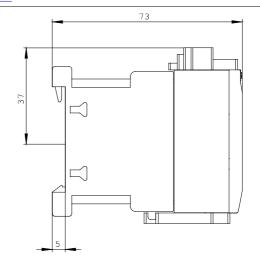
CAx-Online-Generator

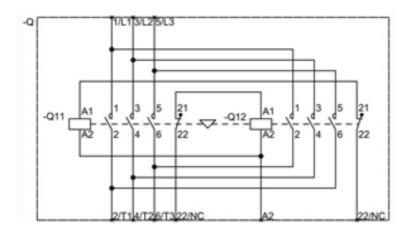
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2315-8XB30-1AP0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2315-8XB30-1AP0







last change:

Feb 4, 2013