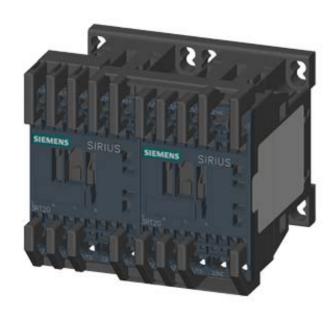
SIEMENS

Product data sheet

3RA2317-8XB30-2BB4



REV. COMB., AC3, 5.5KW/ 400V DC24V 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	1.2
Manufacturer article number		
• 1 / of the contactor included in the scope of supply		3RT2017-2BB42
• 2 / of the contactor included in the scope of supply		3RT2017-2BB42
• of the RS applied assembly kit		3RA2913-2AA2

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 / is supported / AS interface protocol		No

Number of poles / for main current circuit		2
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 	Α	18
• at 60 °C ambient temperature / rated value	Α	16
• at AC-2 / at 400 V / rated value	Α	7
• at AC-3 / at 400 V / rated value	Α	12
• at AC-4 / at 400 V / rated value	Α	6.5
• with 1 current path / at DC-1		
• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	2.1
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	12
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	Α	20
• at 110 V / rated value	А	20
with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	0.15
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	0.35
• with 3 current paths in series / at DC-3 / at DC-5		

• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	20
Service power		
• at AC-2 / at 400 V / rated value	kW	5.5
• at AC-3		
• at 400 V / rated value	kW	5.5
• at 500 V / rated value	kW	5.5
• at 690 V / rated value	kW	5.5
• at AC-4 / at 400 V / rated value	kW	2
Off-load operating frequency	1/h	1,500
Frequency of operation		
• with AC-1 / maximum	1/h	1,000
• with AC-2 / maximum	1/h	750
• with AC-3 / maximum	1/h	750
• with AC-4 / maximum	1/h	250

Control circuit:		
Design of activation		conventional
Voltage type / of control feed voltage		DC
Control supply voltage frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
• for DC / rated value	V	24
Operating range factor control supply voltage rated value / of the magnet coil		
• for DC		0.85 1.1
Pull-in power / of the solenoid / for DC	W	4
Holding power / of the solenoid / for DC	W	4
Resistive loss / of the magnet coil / for DC		
• typical	W	4

Auxiliary circuit:	
Product extension / auxiliary switch	Yes
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	Α	10
• at AC-15		
• at 230 V	Α	6
• at 400 V	Α	3
• at DC-12		
• at 48 V	Α	6
• at 60 V	Α	6
• at 110 V	Α	3
• at 220 V	Α	1
• at DC-13		
• at 24 V	Α	10
• at 48 V	Α	2
• at 60 V	Α	2
• at 110 V	Α	1
• at 220 V	Α	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		+/-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
Width	mm	90
Height	mm	84
Depth	mm	83
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	spring-loaded terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Type of the connectable conductor cross-section	
• for main contacts	
• 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	
• 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 Approval

Declaration of Conformity

Test Certificates









Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval









Lloyd's Register



Shipping Approval





other other

Environmental Confirmations

UL/CSA ratings				
yielded mechanical performance [hp]				
• for single-phase squirrel cage motors				
• at 110/120 V / rated value	hp	0.5		
• at 230 V / rated value	hp	2		
• for three-phase squirrel cage motors				
• at 200/208 V / rated value	hp	1.5		
• at 220/230 V / rated value	hp	3		
• at 460/480 V / rated value	hp	7.5		
• at 575/600 V / rated value	hp	10		
Full-load current (FLA) / for 3-phase motor				
• at 480 V / rated value	Α	11		
• at 600 V / rated value	Α	11		
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] / with low demand rate		
• according to SN 31920	FIT	100
Proportion of dangerous failures		
 with low demand rate / according to SN 31920 	%	40
 with high demand rate / according to SN 31920 	%	75
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
Protection against electrical shock		finger-safe

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

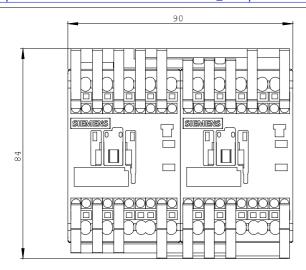
http://www.siemens.com/cax

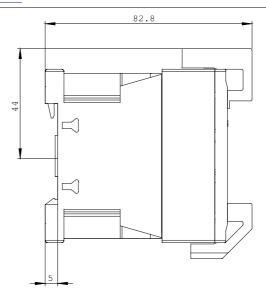
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

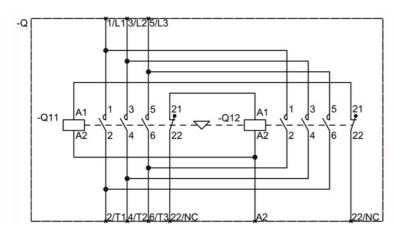
http://support.automation.siemens.com/WW/view/en/3RA2317-8XB30-2BB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2317-8XB30-2BB4







last change: Aug 4, 2014