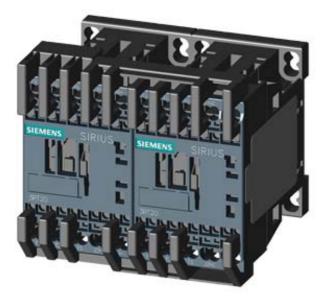
SIEMENS

Product data sheet

3RA2318-8XB30-2BW4



REV. COMB., AC3, 7.5KW/ 400V DC48V 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	1.3
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		<u>3RT2018-2BW42</u>
 2 / of the contactor included in the scope of supply 		<u>3RT2018-2BW42</u>
 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 / 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	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	16
• at AC-4 / at 400 V / rated value	А	6.5
• with 1 current path / at DC-1		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	2.1
 with 2 current paths in series / at DC-1 		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	12
 with 3 current paths in series / at DC-1 		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	20
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	0.15

• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	0.35
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	20
Service power		
• at AC-2 / at 400 V / rated value	kW	7.5
• at AC-3		
• at 400 V / rated value	kW	7.5
• at 500 V / rated value	kW	7.5
• at 690 V / rated value	kW	7.5
• at AC-4 / at 400 V / rated value	kW	3.5
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	1,000
• at AC-3 / according to IEC 60947-6-2 / maximum	1/h	1,000
• at AC-4 / according to IEC 60947-6-2 / maximum	1/h	300
Control circuit:		
Design of activation		conventional
Type of voltage / of the controlled supply voltage		DC
Control supply voltage frequency		
• 1 / rated value	Hz	50

• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
for DC / rated value	V	48
Operating range factor control supply voltage rated value / of the solenoid		
• 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	А	10	
• at AC-15			
• at 230 V	А	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	
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					
• solid		2x (0.5 4 mm²)			
• stranded		2x (0.5 4 mm²)			
• finely stranded					

- with conductor end processing
- without conductor final cutting
- for AWG conductors / for main contacts
- for auxiliary contacts
- solid
- finely stranded
- without conductor final cutting
- for AWG conductors / for auxiliary contacts

• with conductor end processing

Certificates/approvals:

Verification of suitability

CE / UL / CSA / CCC

2x (0.5 ... 2.5 mm²)

2x (0.5 ... 2.5 mm²)

2x (0.5 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²)

2x (0.5 ... 1.5 mm²)

2x (20 ... 14)

1x (20 ... 12)

General Product Approval		Test Certificates			
(SA	ROSTEST	UL UL	Manufacture	ŗ	
Shipping Appro	oval				
ABS	JÅ DNV DNV	GL GL	Lloyd's Register LRS	PRS	RINA
Shipping Appro	oval other				
RMRS	other				
UL/CSA ratings	5				
yielded mechanic	cal performance (hp)				
 for single-phase 	se squirrel cage motors				
• at 110/120	V / rated value		hp	1	
• at 230 V / ra	ated value		hp	2	
for three-phase squirrel cage motors					
• at 200/208 V / rated value			hp	3	
• at 220/230	• at 220/230 V / rated value			5	
• at 460/480 V / rated value		hp	10		
• at 575/600	V / rated value		hp	10	
Operating curren	t (FLA) / for three-phase squi	rrel cage motors			
• at 480 V / rate	ed value		А	14	
• at 600 V / rate	ed value		А	11	
Contact rating de UL	esignation / for auxiliary conta	acts / according to	_	A600 / Q600	
Safety:					
B10 value / with h	high demand rate				
according to SN 31920				1,000,000	
Failure rate (FIT v	value) / with low demand rate				
 according to S 	SN 31920		FIT	100	
Proportion of dar	ngerous failures				
with low demand rate / according to SN 31920			%	40	
with high demand rate / according to SN 31920			%	75	
T1 value / for pro	of test interval or service life				
 according to IE 	EC 61508		а	20	
			-		

Further information:

Protection against electrical shock

finger-safe

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

Industry Mall (Online ordering system)

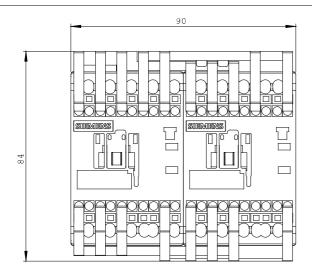
http://www.siemens.com/industrial-controls/mall

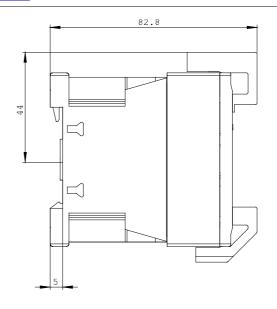
CAx-Online-Generator

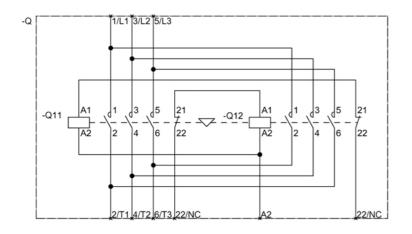
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2318-8XB30-2BW4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2318-8XB30-2BW4







last change:

Oct 24, 2011