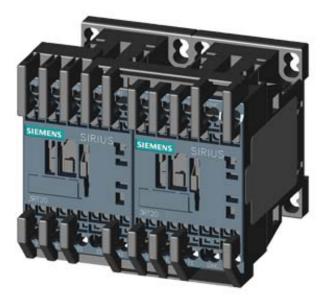
# SIEMENS

# **Product data sheet**

## 3RA2317-8XB30-2AF0



REV. COMB., AC3, 5.5KW/ 400V AC110V, 50/60HZ, 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
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		к
according to DIN EN 61346-2		Q

Manufacturer article number		
<ul> <li>1 / of the contactor included in the scope of supply</li> </ul>		<u>3RT2017-2AF02</u>
<ul> <li>2 / of the contactor included in the scope of supply</li> </ul>		<u>3RT2017-2AF02</u>
<ul> <li>of the RS applied assembly kit</li> </ul>		3RA2913-2AA2
Mechanical operating cycles as operating time		
of the main contacts / typical		10,000,000
<ul> <li>of the auxiliary contacts / typical</li> </ul>		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
<ul> <li>control circuit interface with IO link</li> </ul>		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	12
• 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
<ul> <li>with 2 current paths in series / at DC-1</li> </ul>		
• 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	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	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
Operating range factor control supply voltage rated value / of the solenoid		
• 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	37

Inductive power factor

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

Product extension / auxiliary switch

Apparent holding power / of the solenoid / for AC

V·A

5.7

0.8

0.28

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	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		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
<ul> <li>with type of assignment 1 / required</li> </ul>		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
<ul> <li>for short-circuit protection of the auxiliary switch / required</li> </ul>		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

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

General Product Ap	proval		Test Certific	cates	
(SA)	ROSTEST		Manufacture	ī	
Shipping Approval					
ABS		GL	Llovd's Register	PRS	RINA
Shipping Approval	other				
RMRS	<u>other</u>				
UL/CSA ratings					
yielded mechanical p	erformance (hp)				
<ul> <li>for single-phase so</li> </ul>	quirrel cage motors				
• at 110/120 V / ra	ated value		hp	0.5	
• at 230 V / rated	value		hp	2	
<ul> <li>for three-phase square</li> </ul>	uirrel cage motors				
• at 200/208 V / ra	ated value		hp	1.5	
• at 220/230 V / ra	ated value		hp	3	
• at 460/480 V / ra	ated value		hp	7.5	
• at 575/600 V / ra	ated value		hp	10	
Operating current (FL	A) / for three-phase s	quirrel cage motors	-		
• at 480 V / rated va	lue		А	11	
• at 600 V / rated va	lue		А	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 value	e) / with low demand r	rate			
<ul> <li>according to SN 31</li> </ul>	according to SN 31920		FIT	100	
Proportion of danger	ous failures				
• with low demand rate / according to SN 31920		%	40		
• with high demand rate / according to SN 31920		%	75		
Γ1 value / for proof te	est interval or service	life			
a according to IEC C	4500			20	

Further information:

• according to IEC 61508

Protection against electrical shock

20

finger-safe

а

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

Industry Mall (Online ordering system)

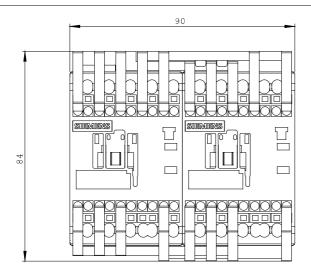
http://www.siemens.com/industrial-controls/mall

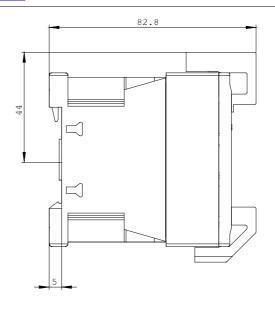
### **CAx-Online-Generator**

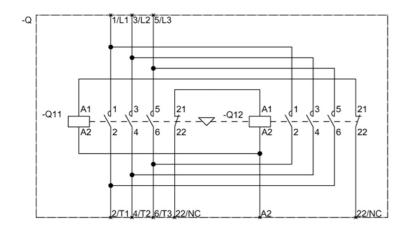
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2317-8XB30-2AF0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RA2317-8XB30-2AF0







last change:

Oct 24, 2011