SIEMENS

Product data sheet

3RV2011-1CA15-ZW97



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 1.8...2.5A, N-RELEASE 33A SCREW CONNECTION, STANDARD SW. CAPACITY, W. TRANSVERSE AUX. SWITCH 1NO+1NC MULTI-UNIT PACKAGE = 12 UNITS

General technical data:			
product brand name		SIRIUS	
product designation		3RV2 circuit breaker	
Size of the circuit-breaker		S00	
Number of poles / for main current circuit		3	
Product function			
 removable terminal for auxiliary and control circuit 		No	
overload protection		Yes	
phase disturbance recognition		Yes	
short-circuit to earth recognition		No	
Product component			
auxiliary switch		Yes	
undervoltage release mechanism		No	
trip indicator		No	
Product extension			
auxiliary switch		Yes	
optional / motor drive		No	
Impulse voltage resistance / rated value	kV	6	
Protection class IP / on the front		IP20	
Protection against electrical shock		finger-safe	

Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against shock		25g / 11 ms
Ambient temperature		
during transport	°C	-50 +80
during storage	°C	-50 +80
during operating	°C	-20 +60
Active power loss / total / typical	W	6
Main circuit:		
Service power / at AC-3		
• at 400 V / rated value	W	750
• at 500 V / rated value	W	1,100
• at 690 V / rated value	W	1,500
Operational current / at AC-3 / at 400 V / rated value	А	2.5
Mechanical operating cycles as operating time / of the main contacts / typical		100,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2	1/h	15
Auxiliary circuit:		
Design of the auxiliary switch		transverse
Number of change-over switches / for auxiliary contacts		0
Mechanical operating cycles as operating time / of the auxiliary contacts / typical		100,000
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)
Operating current / of the auxiliary contacts / at AC-15 / at 24 V	А	2
Operating current / of the auxiliary contacts		
• at AC-15		
• at 230 V	А	0.5
• at DC-13		
• at 24 V	А	1
• at 60 V	А	0.15
Protection function:		
Trip class		CLASS 10
Adjustable response current / of the current-dependent overload release	А	1.8 2.5
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	А	100,000
• at 500 V / rated value	А	100,000
• at 690 V / rated value	А	10,000
Safety:		

Proportion of dangerous failures		
with high demand rate / according to SN 31920	%	40
• with low demand rate / according to SN 31920	%	40
Failure rate (FIT value) / with low demand rate / according to SN 31920	FIT	50
B10 value / with high demand rate / according to SN 31920		50,000
T1 value / for proof test interval or service life / according to IEC 61508	а	10

In stall stick		
Installation/	mounting/dimensions:	

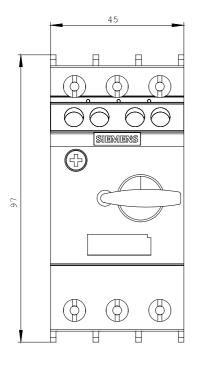
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
mounting position		any
Depth	mm	96
Height	mm	97
Width	mm	45

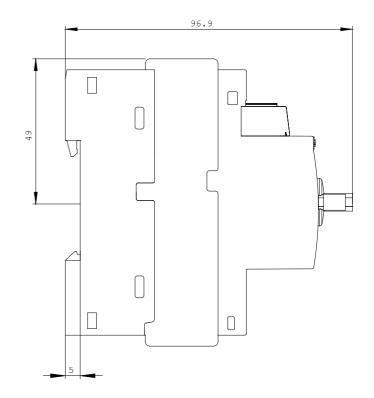
Connections:		
Arrangement of electrical connectors / for main current circuit		Top and bottom
Design of the electrical connection		
for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (0.75 2.5 mm²), 2x 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 (18 14), 2x 12
 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)
UL/CSA ratings:		
yielded mechanical performance (hp)		
 for single-phase squirrel cage motors 		
• at 230 V / rated value	hp	0.167
 for three-phase squirrel cage motors 		
• at 200/208 V / rated value	hp	0.5
• at 220/230 V / rated value	hp	0.5
• at 460/480 V / rated value	hp	1

• at 575/600 V / rated value	hp	1.5
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	А	2.1
• at 600 V / rated value	А	2.4
Contact rating designation / for auxiliary contacts / according to UL	-	C300 / R300

Certificates/approv	/als:				
General Product Ap	proval	For use in hazardous locations	Declaration of Conformity	Test Certificates	
(SA)		Ex ATEX	EG-Konf.	Special Test Certificate	Type Test Certificates/Test Report
Shipping Approval	other				
ČŠ DNV Further informatio	other				
Information- and Dov http://www.siemens.co	vnloadcenter (Cat				
Industry Mall (Online http://www.siemens.cc	•••				
Cax online generator http://www.siemens.cc					
Service&Support (Ma	nuals, Certificate	s, Characteristics, FAQ	s,)		

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1CA15-ZW97





last change:

Feb 14, 2013