# SIEMENS

## **Product data sheet**

## 3RV2011-4AA20



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 11...16A, N-RELEASE 208A, SPRING-L. CONNECTION, STANDARD SW. CAPACITY

General technical data:		
Product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		S00
Trip class		CLASS 10
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-50 80
during operating	°C	-20 60
during transport	°C	-50 80
Resistance against shock		25g / 11 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Active power loss / total / typical	W	8.3
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		F
according to DIN EN 61346-2		F

• of the main contacts / typical     • of the auxiliary contacts / typical  Type of the driving mechanism / motor drive  Design of the operating mechanism  Product function	100,000 100,000 No selector switch
Type of the driving mechanism / motor drive Design of the operating mechanism	No
Design of the operating mechanism	
	selector switch
Product function	
overload protection	Yes
phase disturbance recognition	Yes
Product component	
auxiliary switch	No
undervoltage release mechanism	No
• trip indicator	No
Product extension / optional / motor drive	No
Main circuit:	
Number of poles / for main current circuit	3
Operating voltage / at AC-3 / rated value / maximum	690
Operating current / at AC-3 / at 400 V / rated value A	15.5
Service power / at AC-3	
• at 400 V / rated value W	7,500
• at 500 V / rated value W	7,500
• at 690 V / rated value W	11,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / 1/h maximum	15
Arrangement of electrical connectors / for main current circuit	Top and bottom
Adjustable response current	
• of the non-delayed short-circuit release A	208 208
• of the current-dependent overload release A	11 16
Service power / at AC-3 / at 230 V / rated value W	4,000
Continuous current / rated value A	16
Auxiliary circuit:	
Product extension / auxiliary switch	Yes
Number of NC contacts / for auxiliary contacts / instantaneous switching	0
Number of NO contacts / for auxiliary contacts / instantaneous switching	0
Number of change-over switches / for auxiliary contacts	0
Inputs/ Outputs:	
Number of digital inputs	0

Short-circuit:				
Breaking capacity limit short-circuit current (lcu)				
• at 400 V / rated value	А	55,000		
• at 500 V / rated value	А	10,000		
• at 690 V / rated value	А	4,000		
Design of the overcurrent release and short-circuit release		thermomagnetic		
Installation/mounting/dimensions:				
Built in orientation		any		
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
Width	mm	45		
Height	mm	109		
Depth	mm	91		
Distance, to be maintained, to the ranks assembly				
• forwards	mm	0		
backwards	mm	0		
• upwards	mm	50		
downwards	mm	50		
• sidewards	mm	0		
Distance, to be maintained, to earthed part				
forwards	mm	0		
backwards	mm	0		
• upwards	mm	50		
• sidewards	mm	30		
• downwards	mm	50		
Distance, to be maintained, conductive elements				
• forwards	mm	0		
backwards	mm	0		
• upwards	mm	50		
downwards	mm	50		
• sidewards	mm	30		
Connections:				
Product function				
removable terminal for main circuit		No		
removable terminal for auxiliary and control circuit		No		
Design of the electrical connection				
• for main current circuit		spring-loaded terminals		
Type of the connectable conductor cross-section				
for main contacts				

• solid				2x (0.5	4 mm²)		
<ul> <li>stranded</li> </ul>				2x (0.5	4 mm²)		
<ul> <li>finely strand</li> </ul>	ed						
<ul> <li>with cond</li> </ul>	uctor end processing			2x (0.5	2.5 mm²)		
• without co	onductor final cutting			2x (0.5	2x (0.5 2.5 mm²)		
<ul> <li>for AWG condu</li> </ul>	ctors / for main contact	ts		2x (20	12)		
Certificates/app	rovals:						
Verification of suit	ability			CE / UI	L/CSA		
<ul> <li>f ür Staubexplos</li> </ul>	sionsschutz für Zone 21	1/22		no			
<ul> <li>for gas explosic</li> </ul>	on protection for zone 1	/2		no			
General Product	Approval				For use in hazard	lous locations	
coc	(SA)	ROSTEST			<u>DEKRA EXAM,</u> <u>DMT</u>		
Test Certificates							
Manufacturer	other						
Shipping Approv	al						
ABS	GL	Lloyd's Kegister Lrs	PRS		RINA	RMRS	
other							
Manufacturer	<u>other</u>	UDE VDE					
UL/CSA ratings							
yielded mechanica	al performance (hp)						
<ul> <li>for single-phase</li> </ul>	e squirrel cage motors						
• at 110/120 V	/ / rated value		hp	1			
• at 230 V / ra	ted value		hp	2			
<ul> <li>for three-phase</li> </ul>	squirrel cage motors						
• at 200/208 V	/ / rated value		hp	3			
• at 220/230 V / rated value		hp	5				
• at 460/480 V / rated value			hp	10			
Operating current	(FLA) / for three-phas	se squirrel cage motors					
• at 480 V / rated	value		А	14			
Safety:							
B10 value / with hi	gh demand rate						
<ul> <li>according to SN</li> </ul>	N 31920			50,000			

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

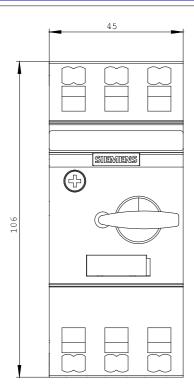
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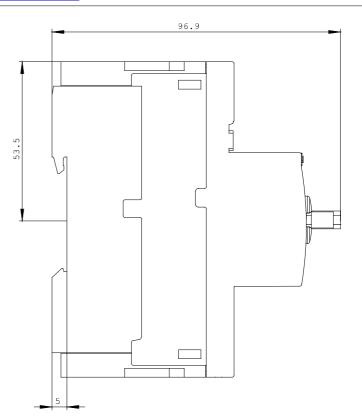
### CAx-Online-Generator

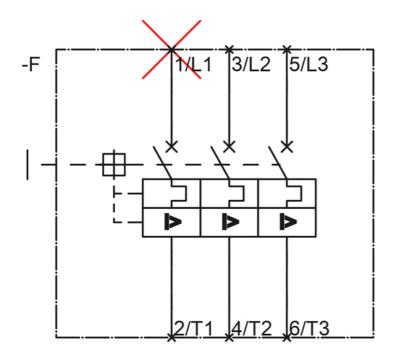
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-4AA20/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2011-4AA20







last change:

Oct 24, 2011