## SIEMENS

## **Product data sheet**

## 3RV2011-1GA20



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 4.5...6.3A, N-RELEASE 82A SPRING-L. CONNECTION, STANDARD SW. CAPACITY

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			
Short circuit protection	Yes		
overload protection	Yes		
Phase failure detection	Yes		
System protection	Yes		
motor protection	Yes		
<ul> <li>motor protection with overload relay function</li> </ul>	No		
starter protection	No		
Transformer protection	No		
Disconnector functionality	Yes		
<ul> <li>Main switches with supply disconnect function and EM-STOP switches</li> </ul>	No		
Design of the operating mechanism	selector switch		
Product component			
Auxiliary switch	No		
undervoltage release	No		

• Trip indicator		No
Product expansion		
Auxiliary switch		Yes
optional / motor drive		No
Insulation voltage / with degree of pollution 3 / Rated value	V	690
Surge voltage resistance / Rated value	kV	6
Protection class IP		
• of the terminal		IP20
• on the front		IP20
Protection against electrical shock		finger-safe
Installation altitude / at height above sea level / maximum	m	2,000
Relative humidity		
during operation	%	10 95
Ambient temperature		
during transport	°C	-50 +80
during storage	°C	-50 +80
during operation	°C	-20 +60
Shock resistance / acc. to IEC 60068-2-27		25g / 11 ms
Usage category		
• acc. to IEC 60947-4-1		AC-3
Active power loss / total / typical	W	6.7

Main circuit:			
Operating voltage / Rated value	V	690	
Type of voltage / for main current circuit		AC/DC	
Operating frequency			
Rated value	Hz	50 60	
Operating current / at AC-3 / at 400 V / Rated value	А	6.3	

Protective and monitoring functions:			
Type of protection		Increased safety	
Certificate of suitability / ATEX		Yes	
Design of the overload circuit breaker		thermal	
Adjustable response value current / of the current-dependent overload release	A	4.5 6.3	
Trip class		CLASS 10	
Design of the short-circuit trip		magnetic	
Response value current / of the instantaneous short-circuit release	A	82	
Operational short-circuit current breaking capacity (Ics) / with AC			

• at 240 V / Rated value	kA	100	
• at 400 V / Rated value	kA	100	
• at 500 V / Rated value	kA	100	
• at 690 V / Rated value	kA	4	
Maximum short-circuit current breaking capacity (Icu)	_		
• with AC / at 240 V / Rated value	kA	100	
• with AC / at 400 V / Rated value	kA	100	
• with AC / at 500 V / Rated value	kA	100	
• with AC / at 690 V / Rated value	kA	6	
Design of the fuse link / for IT network / for short-circuit protection of the main circuit			
• at 400 V		gL/gG 50 A	
• at 500 V		gL/gG 40 A	
• at 690 V		gL/gG 35 A	
Breaking capacity short-circuit current (Icn)			
• with 1 current path / for DC / at 150 V / Rated value	kA	10	
$\bullet$ with 2 current paths in series / for DC / at 300 V / Rated value	kA	10	
• with 3 current paths in series / for DC / at 450 V / Rated value	kA	10	
Installation/ mounting/ dimensions:			
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
mounting position		any	
Depth	mm	96	

Depth	mm	96
Height	mm	106
Width	mm	45

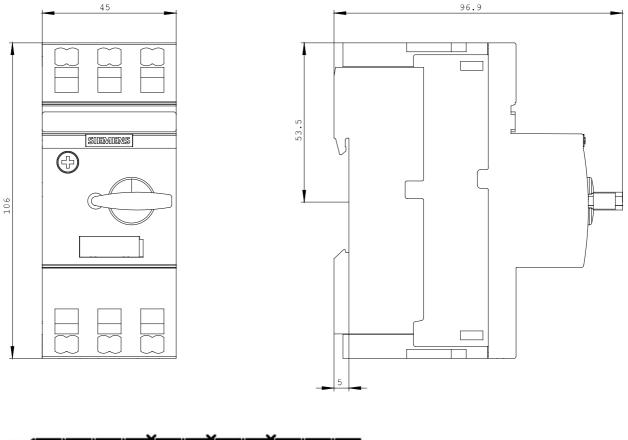
Connections/ terminals:			
Arrangement of electrical connectors / for main current circuit		Top and bottom	
Design of the electrical connection / for main current circuit	-	spring-loaded terminals	
Type of connectable conductor cross-section			
for main contacts			
single or multi-stranded		2x (0,5 4 mm²)	
finely stranded			
without core end processing		2x (0.5 2.5 mm²)	
with core end processing		2x (0.5 2.5 mm²)	
for AWG conductors / for main contacts		2x (20 12)	
UL/CSA ratings:			
Operating voltage / acc. to UL 60947 / Rated value	V	600	
Full-load current (FLA) / for three-phase AC motor	_		

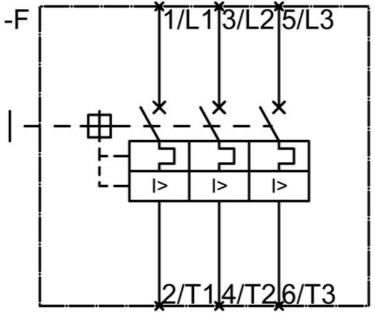
• at 480 V / Rated value

А

6.3

• at 600 V / Rated va	alue		A 6.3	3	
Certificates/ approv	vals:				
General Product Ap	proval		Declaration of Conformity	Test Certificates	
	EHC		EG-Konf.	Special Test Certificate	<u>Type Test</u> Certificates/Test Report
Shipping Approval					
ABS	B U R E A U V E R I TA S	ŮŇ DNV	GL	Lloyd's Register LRS	PRS
Shipping Approval		other			
RINA	RMRS	<u>Confirmation</u>		<u>other</u>	Environmental Confirmations
Further information	n:				
	Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs				
Industry Mall (Online ordering system) http://www.siemens.com/industrymall					
Cax online generator http://www.siemens.com/cax					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RV2011-1GA20/all					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1GA20					





last change:

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