

Product data sheet 3RV2011-1AA20

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.1.1...1.6A, N-RELEASE 21A, SPRING-L. CONNECTION

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 / frontal/front side		IP20		
Degree of pollution		3		
Altitude of installation site / at a height over sea level / maximum	m	2,000		
Ambient temperature				
during storage	°C	-50 80		
during the operating phase	°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		
Real loss power / total / typical	W	6		
Item designation				
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F		
according to DIN EN 61346-2		F		
Mechanical switching cycle as operating period				
of the main contacts / typical		100,000		
of the auxiliary contacts / typical		100,000		
Type of the driving mechanism / Motor drive		No		
design of the operating mechanism		selector switch		
Product function				
Overload protection		Yes		
Short-circuit to earth recognition		No		
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 3 AC / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	Α	1.5
Service power / at AC-3		
• at 400 V / rated value	W	550
at 500 V / rated value	W	750
• at 690 V / rated value	W	1,100
Switching frequency / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		Top and bottom
Adjustable response current		
of the current-dependent overload release	Α	1.1 1.6
Service power / at AC-3 / at 230 V / rated value	W	250
Continuous current / rated value	Α	1.6
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 contact		0
Inputs/ Outputs:		
Number of digital inputs		0
Short-circuit:		
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	Α	100,000
• at 500 V / rated value	Α	100,000
• at 690 V / rated value	Α	100,000
Design of the overcurrent release and short-circuit release		thermomagnetic
Installation/mounting/dimensions:		
built in orientation		any
Type of fixing/fixation		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
		mounting rail according to Diff E17 Cor 10

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				
• unifilar		2x (0.5 4 mm2)		
• stranded wire		2x (0.5 4 mm2)		
• stranded wire				
with conductor end processing		2 x (0.5 2.5 mm2)		
without conductor final cutting		2x (0.5 2.5 mm2)		
at AWG-conductors / for main contacts		2x (20 12)		
Certificates/approvals:				
verification of suitability		CE / UL / CSA		

• für Staubexplosionsschutz für Zone 21/22

• for gas explosion protection for zone 1/2

no

no

Safety:				
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		
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

Global Industry Mall (Online ordering system)

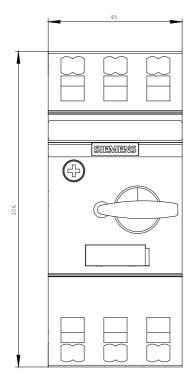
http://www.siemens.com/industrial-controls/mall

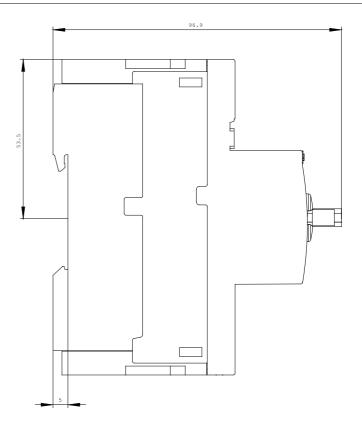
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

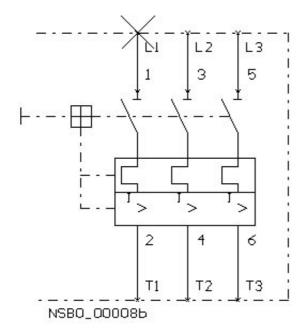
http://support.automation.siemens.com/WW/view/en/3RV2011-1AA20/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1AA20}}$







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