

Product data sheet 3RV2011-1JA20

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 7...10A, N-RELEASE 130A, 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	7		
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		
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	8.5
Service power / at AC-3		
at 400 V / rated value	W	4,000
at 500 V / rated value	W	5,500
• at 690 V / rated value	W	7,500
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	7 10
Service power / at AC-3 / at 230 V / rated value	W	2,200
Continuous current / rated value	Α	10
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	А	42,000
• at 690 V / rated value	Α	6,000
Design of the overcurrent release and short-circuit release		thermomagnetic
Installation/mounting/dimensions:		
built in orientation		any
built in orientation  Type of fixing/fixation		any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715

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		
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		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				
<ul> <li>with low demand rate / according to SN 31920</li> </ul>	%	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)

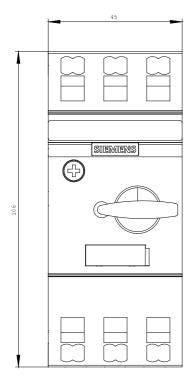
http://www.siemens.com/industrial-controls/mall

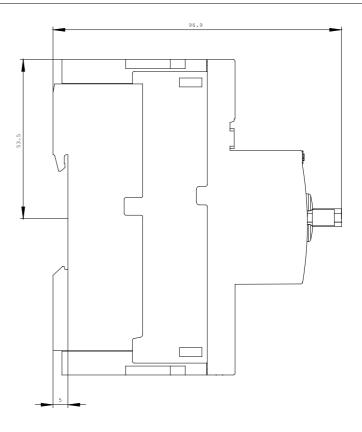
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

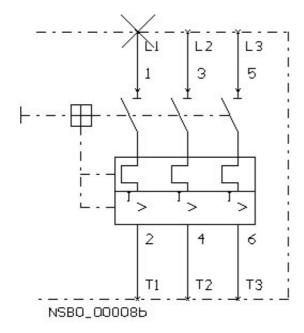
http://support.automation.siemens.com/WW/view/en/3RV2011-1JA20/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2011-1JA20}$ 







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