# **SIEMENS**

Product data sheet

## CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.22...0.32A, N-RELEASE4.2A 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
<ul> <li>during the operating phase</li> </ul>	°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	5
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	А	0.3
Service power / at AC-3		
• at 400 V / rated value	W	90
• at 500 V / rated value	W	120
• at 690 V / rated value	W	120
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	А	0.22 0.32
Service power / at AC-3 / at 230 V / rated value	W	40
Continuous current / rated value	А	0.32
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	А	100,000
• at 500 V / rated value	А	100,000
• at 690 V / rated value	А	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
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		
<ul> <li>removable terminal for main circuit</li> </ul>		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		
<ul> <li>with conductor end processing</li> </ul>		2 x (0.5 2.5 mm2)
<ul> <li>without conductor final cutting</li> </ul>		2x (0.5 2.5 mm2)
at AWG-conductors / for main contacts		2x (20 12)
Certificates/approvals:		
		CE / UL / CSA
verification of suitability		OL/OL/OSA
<ul><li>verification of suitability</li><li>für Staubexplosionsschutz für Zone 21/22</li></ul>		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:

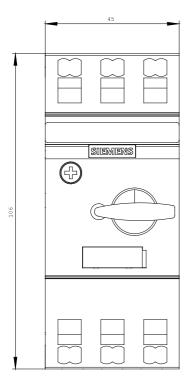
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

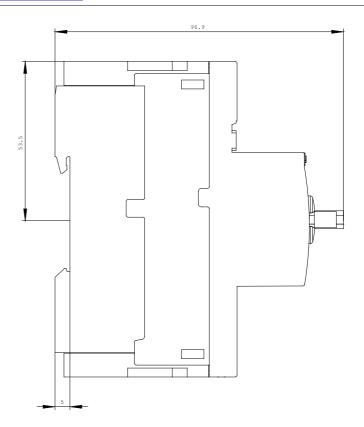
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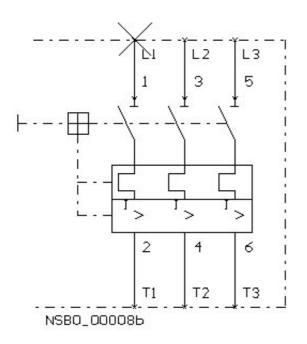
http://www.siemens.com/industrial-controls/mall

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-0DA20/all

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2011-0DA20







last change:

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