SIEMENS

Product data sheet



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 2.8...4A, N-RELEASE 52A, SCREW 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	6.3	
Item designation			
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F	
according to DIN EN 61346-2		F	

Mechanical operating cycles as operating time		
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
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	V	690
Operating current / at AC-3 / at 400 V / rated value	А	4
Service power / at AC-3		
• at 400 V / rated value	W	1,500
• at 500 V / rated value	W	2,200
• at 690 V / rated value	W	3,000
Frequency of operation / 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 non-delayed short-circuit release	А	52 52
of the current-dependent overload release	А	2.8 4
Service power / at AC-3 / at 230 V / rated value	W	750
Continuous current / rated value	А	4
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	100,000	
• at 500 V / rated value	А	100,000	
• at 690 V / rated value	А	6,000	
Design of the overcurrent release and short-circuit release		thermomagnetic	
Installation/mounting/dimensions:			
mounting position		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	97	
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		screw-type terminals	
Type of the connectable conductor cross-section			
for main contacts			

 solid 				2x (0.7	5 2.5 mm²), 2x 4	mm²	
• finely stranded							
 with cond 	ductor end processing			2x (0.5	1.5 mm²), 2x (0.7	75 2.5 mm²)	
for AWG conductors / for main contacts				2x (18 14), 2x 12			
Certificates/app	provals:						
Verification of suitability				CE / UL / CSA / CCC			
für Staubexplosionsschutz für Zone 21/22				no			
 for gas explosion protection for zone 1/2 				no			
General Product	t Approval				For use in hazardous locations	Declaration of Conformity	
	CSA	GOST			Ex ATEX	EG-Konf.	
Test Certificates	3						
other	Special Test Certificate	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>					
Shipping Approv	val						
ABS	GL	Lloyd's Register	PRS		RINA	RMRS	
other							
	other						
UL/CSA ratings	i						
yielded mechanic	al performance (hp)						
 for single-phase 	se squirrel cage motors						
• at 110/120 V	V / rated value		hp	0.125			
• at 230 V / rated value		hp	0.333				
 for three-phase squirrel cage motors 							
• at 200/208 V / rated value		hp	0.75				
• at 220/230 V / rated value		hp	0.75				
• at 460/480 \	V / rated value		hp	2			
• at 575/600 \	V / rated value		hp	3			
Operating current	t (FLA) / for three-phas	e squirrel cage motors					

- at 480 V / rated value
- at 600 V / rated value

Safety:

А

А

3.4

3.9

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

Industry Mall (Online ordering system)

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

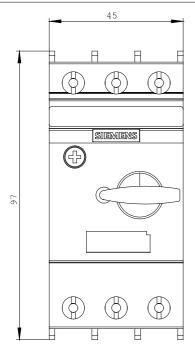
CAx-Online-Generator

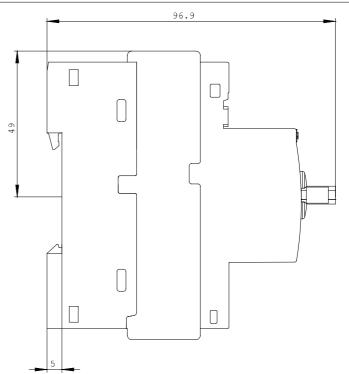
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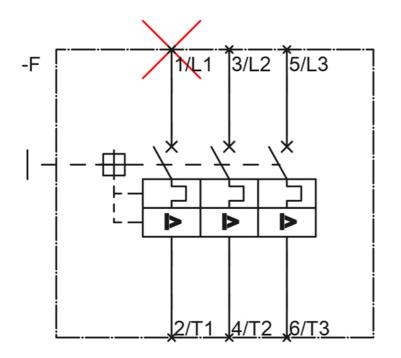
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-1EA10/all

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

 $\underline{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1EA10}$







last change:

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