## **SIEMENS**

Data sheet 3RV2711-0FD10



CIRCUIT-BREAKER SZ S00, FOR PLANT PROTECTION, WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA C22.2 NO.5-02. A-RELEASE 0.5 A, N-RELEASE 6.5 A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:		
Active power loss total typical	W	5
Insulation voltage		
<ul> <li>with degree of pollution 3 Rated value</li> </ul>	V	690
Shock resistance		
• acc. to IEC 60068-2-27		25g / 11 ms
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
<ul> <li>of the main contacts typical</li> </ul>		100 000
• of the auxiliary contacts typical		100 000
Electrical endurance (switching cycles)		
• typical		100 000
Temperature compensation	°C	-20 <b>+</b> 60
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Equipment marking		
• acc. to DIN EN 81346-2		Q

Main circuit:		
Number of poles for main current circuit		3
Operating voltage		
Rated value	V	690

<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690
Operating frequency Rated value	Hz	50 60
Operating power		
• at AC-3		
— at 230 V Rated value	W	60
— at 400 V Rated value	W	120
— at 500 V Rated value	W	120
— at 690 V Rated value	W	180
Operating frequency		
• at AC-3 maximum	1/h	15
A 28 - 20 - 20		

Auxiliary circuit:		
Number of NC contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Number of NO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Product expansion Auxiliary switch		Yes

Protective and monitoring functions:			
Design of the overload circuit breaker		thermal	
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	100	
Maximum short-circuit current breaking capacity (Icu)			
<ul> <li>with AC at 240 V Rated value</li> </ul>	kA	100	
<ul> <li>with AC at 400 V Rated value</li> </ul>	kA	100	
• with AC at 500 V Rated value	kA	100	
<ul> <li>with AC at 690 V Rated value</li> </ul>	kA	100	
• at 480 AC Y/277 V acc. to UL 489 Rated value	Α	65 000	
Breaking capacity short-circuit current (Icn)			
<ul> <li>with 1 current path for DC at 150 V Rated value</li> </ul>	kA	10	
<ul> <li>with 2 current paths in series for DC at 300 V</li> <li>Rated value</li> </ul>	kA	10	
<ul> <li>with 3 current paths in series for DC at 450 V</li> <li>Rated value</li> </ul>	kA	10	
Response value current of the instantaneous short- circuit release	А	6.5	

## Short-circuit:

Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Design of the fuse link for IT network for short-circuit protection of the main circuit	
● at 690 V	gL/gG 4 A

Installation/ mounting/ dimensions:			
mounting position		any	
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
Height	mm	144	
Width	mm	45	
Depth	mm	97	
Required spacing			
<ul><li>with side-by-side mounting</li></ul>			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	50	
— downwards	mm	50	
— at the side	mm	0	
<ul> <li>for grounded parts</li> </ul>			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	50	
— at the side	mm	30	
— downwards	mm	50	
• for live parts			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	50	
— downwards	mm	50	
— at the side	mm	30	

Connections/ Terminals:		
Type of electrical connection		
• for main current circuit	:	screw-type terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	1	No
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		1 10 mm², max. 2x 10 mm²

finally atranded with care and processing		1 16 mm², max. 6 + 16 mm²
— finely stranded with core end processing		
• for AWG conductors for main contacts		2x 14
Tightening torque		
for main contacts with screw-type terminals	N·m	2.5 3
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw		
• for main contacts		M4
Safety related data:		
B10 value with high demand rate acc. to SN 31920		50 000
Proportion of dangerous failures		
• with low demand rate acc. to SN 31920	%	40
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	40
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	50
T1 value for proof test interval or service life acc. to IEC 61508	у	10
Protection against electrical shock		finger-safe
Mechanical data:		
Size of the circuit-breaker		S00
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
<ul><li>during operation</li></ul>	°C	-20 <b>+</b> 60
during storage	°C	-50 <b>+</b> 80
during transport	°C	-50 <b>+</b> 80
Relative humidity during operation	%	10 95
Display:		
Display version		
• for switching status		Handle
Certificates/ approvals:		

## **General Product Approval**

Declaration of Conformity

Test Certificates











Type Test
Certificates/Test
Report

Test Certificates **Shipping Approval** 

Special Test Certificate







GL







**Shipping Approval** 

other



Confirmation

Environmental Confirmations



other

Further informatior

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://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV27110FD10

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

http://support.automation.siemens.com/WW/view/en/3RV27110FD10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV27110FD10&lang=en





