## **SIEMENS**

## Data sheet

## 3RV2811-1FD10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROTECTION, WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA C22.2 NO.5-02. A-RELEASE 5 A, N-RELEASE 104 A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name		SIRIUS		
Product designation		3RV2 circuit breaker		
General technical data:				
Active power loss total typical	W	6		
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		
<ul> <li>of the auxiliary contacts typical</li> </ul>		100 000		
Electrical endurance (switching cycles)				
• typical		100 000		
Temperature compensation	°C	-20 +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		

Main circuit.		
Number of poles for main current circuit		3
Adjustable response value current of the current- dependent overload release	A	5 5
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	1 100
— at 400 V Rated value	W	2 200
— at 500 V Rated value	W	2 200
— at 690 V Rated value	W	4 000
Operating frequency		
• at AC-3 maximum	1/h	15
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		100
• 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	4
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
• with AC at 690 V Rated value	kA	6
• at 480 AC Y/277 V acc. to UL 489 Rated value	A	65 000
Breaking capacity short-circuit current (Icn)		
• with 1 current path for DC at 150 V Rated value	kA	10
<ul> <li>with 2 current paths in series for DC at 300 V Rated value</li> </ul>	kA	10
<ul> <li>with 3 current paths in series for DC at 450 V Rated value</li> </ul>	kA	10
Response value current of the instantaneous short- circuit release	A	104

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 400 V	gL/gG 32 A		
• at 500 V	gL/gG 32 A		
• at 690 V	gL/gG 25 A		

nstallation/ 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>		No

Type of connectable conductor cross-section		
<ul> <li>for main contacts</li> </ul>		
— single or multi-stranded		1 10 mm², max. 2x 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		1 16 mm², max. 6 + 16 mm²
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x 14
Tightening torque	-	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	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 +60
• during storage	°C	-50 +80
<ul> <li>during transport</li> </ul>	°C	-50 +80
Relative humidity during operation	%	10 95
Display:		
Display version		
• for switching status		Handle
Certificates/ approvals:		

General Product Approval		Declaration of Test Certificates Conformity			
(SA) CSA		EHC	EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>	Special Test Certificate
Shipping Approv	val				
ABS	BUREAU VERITAS	GL GL	Lloyd's Register Irs	PRS	RINA
Shipping	other				
Approval					
RMRS	Environmental Confirmations	Confirmation		<u>other</u>	

## Further information

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

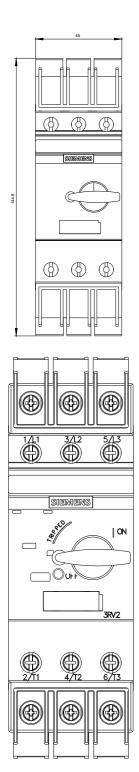
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

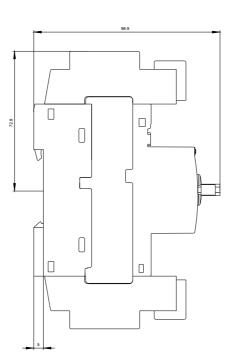
Cax online generator

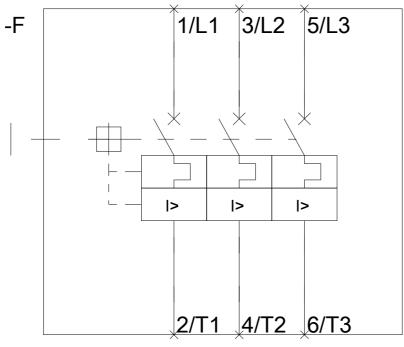
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV28111FD10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV28111FD10/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=3RV28111FD10&lang=en







last modified:

11.03.2015