SIEMENS

Data sheet 3RV2811-1ED10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROTECTION, WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA C22.2 NO.5-02. A-RELEASE 4 A, N-RELEASE 82 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		
 with degree of pollution 3 Rated value 	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)		
 of the main contacts typical 		100 000
 of the auxiliary contacts typical 		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
Adjustable response value current of the current-	Α	4 4
dependent overload release		
Operating voltage		

Rated value	V	690
 at AC-3 Rated value maximum 	V	690
Operating frequency Rated value	Hz	50 60
Operating power		
• at AC-3		
— at 230 V Rated value	W	750
— at 400 V Rated value	W	1 500
— at 500 V Rated value	W	2 200
— at 690 V Rated value	W	3 000
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
for auxiliary contacts		0
Number of NO contacts		
 for auxiliary contacts 		0
Number of CO contacts		
 for auxiliary contacts 		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	4
Maximum short-circuit current breaking capacity (Icu)		
• with AC at 240 V Rated value	kA	100
• with AC at 400 V Rated value	kA	100
 with AC at 500 V Rated value 	kA	100
	IO (
• with AC at 690 V Rated value	kA	6

kΑ

kΑ

kΑ

Α

with 1 current path for DC at 150 V Rated value
with 2 current paths in series for DC at 300 V

• with 3 current paths in series for DC at 450 V

Response value current of the instantaneous short-

Rated value

Rated value

circuit release

10

10

10

82

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 400 V		
● at 500 V	gL/gG 32 A	
● at 690 V	gL/gG 25 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		
with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0
• for grounded parts		
— 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 removable terminal for auxiliary and control circuit		No

Type of connectable conductor cross-section			
• for main contacts			
— single or multi-stranded		1 10 mm², max. 2x 10 mm²	
 finely stranded with core end processing 		1 16 mm², max. 6 + 16 mm²	
 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	
 with high demand rate acc. to SN 31920 	%	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 maximum	m	2 000	
Ambient temperature			
during operation	°C	-20 + 60	
during storage	°C	-50 + 80	
during transport	°C	-50 + 80	
Relative humidity during operation	%	10 95	
Display:	Display:		
Display version			
• for switching status		Handle	
Certificates/ approvals:			

General Product Approval

Declaration of Conformity

Test Certificates









Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval













Shipping Approval other



Environmental Confirmations

Confirmation



other

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=3RV28111ED10

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

http://support.automation.siemens.com/WW/view/en/3RV28111ED10/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=3RV28111ED10&lang=en





