SIEMENS

Data sheet 3RV2811-0AD10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROTECTION, WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA C22.2 NO.5-02. A-RELEASE 0.16 A, N-RELEASE 3.3 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			
 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- dependent overload release	A	0.16 0.16
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	20
— at 400 V Rated value	W	40
— at 500 V Rated value	W	60
— at 690 V Rated value	W	60
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	100
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
		100
 with AC at 500 V Rated value 	kA	100
with AC at 500 V Rated valuewith AC at 690 V Rated value	kA kA	100

kΑ

kΑ

kΑ

Α

Rated value

Rated value

circuit release

• 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-

10

10

10

3.3

Product function Short circuit protection Design of the short-circuit trip Installation/ mounting/ dimensions: mounting position any Mounting type Screw	etic
Installation/ mounting/ dimensions: mounting position any	etic
mounting position any	
mounting position any	
Mounting type	
	and snap-on mounting onto 35 mm standard ting 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	h us a haussius als
	-type terminals
circuit	nd bottom
Product function	
• removable terminal for auxiliary and control No circuit	
Type of connectable conductor cross-section	
• for main contacts	
— single or multi-stranded1 10	0 mm², max. 2x 10 mm²
— finely stranded with core end processing 1 16	6 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 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=3RV28110AD10

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

http://support.automation.siemens.com/WW/view/en/3RV28110AD10/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=3RV28110AD10&lang=en





