SIEMENS

Data sheet 3RV2811-1KD10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROTECTION, WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA C22.2 NO.5-02. A-RELEASE 12.5 A, N-RELEASE 260 A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:		
Active power loss total typical	W	7
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	Α	12 12.5
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	3 000
— at 400 V Rated value	W	5 500
— at 500 V Rated value	W	7 500
— at 690 V Rated value	W	7 500
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	42
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	42
 with AC at 690 V Rated value 	kA	6
• at 480 AC Y/277 V acc. to UL 489 Rated value	Α	65 000

kΑ

kΑ

kΑ

Α

Rated value

Rated value

circuit release

Breaking capacity short-circuit current (Icn)

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

260

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 63 A	
● at 500 V	gL/gG 50 A	
● at 690 V	gL/gG 40 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		
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	m	2 000
maximum		
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









Special Test Certificate

Type Test Certificates/Test Report

Shipping Approval













Shipping Approval

other

Environmental Confirmations

Confirmation



other

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=3RV28111KD10

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

http://support.automation.siemens.com/WW/view/en/3RV28111KD10/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=3RV28111KD10&lang=en





