SIEMENS

Data sheet

3RV2811-1HD10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROTECTION, WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA C22.2 NO.5-02. A-RELEASE 8 A, N-RELEASE 163 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		

Number of poles for main current circuit		3
Adjustable response value current of the current-	А	8 8
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	1 500
— at 400 V Rated value	W	3 000
— at 500 V Rated value	W	4 000
— at 690 V Rated value	W	5 500
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	100 42
 at 500 V Rated value at 690 V Rated value 		100
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA	100 42 4
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value 	kA kA kA	100 42 4 100
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value 	kA kA kA kA	100 42 4 100 100
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value with AC at 500 V Rated value 	kA kA kA kA kA	100 42 4 100 100 42
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value 	kA kA kA kA kA kA	100 42 4 100 100 42 6
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value at 480 AC Y/277 V acc. to UL 489 Rated value 	kA kA kA kA kA	100 42 4 100 100 42
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value at 480 AC Y/277 V acc. to UL 489 Rated value Breaking capacity short-circuit current (Icn) 	kA kA kA kA kA kA A	100 42 4 100 100 42 6 6 65 000
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value at 480 AC Y/277 V acc. to UL 489 Rated value Breaking capacity short-circuit current (Icn) with 1 current path for DC at 150 V Rated value 	kA kA kA kA kA kA kA	100 42 4 100 100 42 6 6 65 000 10
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value at 480 AC Y/277 V acc. to UL 489 Rated value Breaking capacity short-circuit current (Icn) 	kA kA kA kA kA kA A	100 42 4 100 100 42 6 6 65 000
 at 500 V Rated value at 690 V Rated value Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value at 480 AC Y/277 V acc. to UL 489 Rated value 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 	kA kA kA kA kA kA kA	100 42 4 100 100 42 6 6 65 000 10

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 50 A		
• at 500 V	gL/gG 40 A		
• at 690 V	gL/gG 35 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 Produc	t Approval	_	Declaration of Conformity	Test Certificates	
(SA)		EHC	EG-Konf.	Special Test Certificate	<u>Type Test</u> Certificates/Test <u>Report</u>
Shipping Approv	val				
ABS	B U R E A U V E R I TA S	GL	Lloyd's Register Irs	PRS	RINA
Shipping	other				
Approval					
RMRS	Environmental Confirmations	Confirmation	UDE VDE	other	

Further information

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

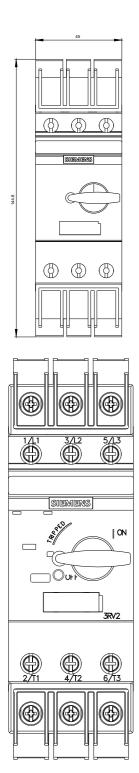
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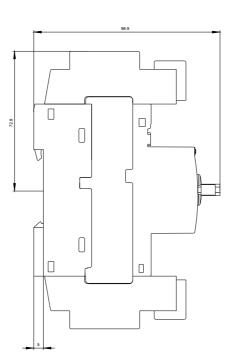
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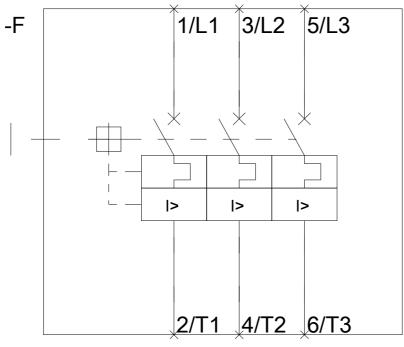
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV28111HD10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV28111HD10&lang=en







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