## SIEMENS

## Data sheet

## 3RV2811-1ED10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 4 A N-release 82 A screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For transformer protection according to UL 489/CSA C22.2 No.5
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25 g / 11 ms (rectangular impulse and sine pulse)
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
operating voltage	
<ul> <li>rated value</li> </ul>	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	4 A
operational current	
• at AC-3 at 400 V rated value	4 A
• at AC-3e at 400 V rated value	4 A
operating power	
• at AC-3	
— at 230 V rated value	0.8 kW

— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
• at AC-3e	
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	No
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	100 kA
at AC at 500 V rated value	100 kA
at AC at 690 V rated value	6 kA
<ul> <li>at 480 AC Y/277 V according to UL 489 rated value</li> </ul>	65 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
• at 400 V rated value	100 kA
at 500 V rated value	100 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	82 A
Short-circuit protection	
	Yes
product function short circuit protection	
design of the short-circuit trip design of the fuse link for IT network for short-circuit	magnetic
protection of the main circuit	
• at 400 V	gG 32 A
• at 500 V	gG 32 A
• at 690 V	gG 25 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	144 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>for grounded parts at 400 V</li> </ul>	
- downwards	30 mm
— upwards	30 mm
— at the side	30 mm
<ul> <li>for live parts at 400 V</li> </ul>	
- downwards	30 mm
— upwards	30 mm
	30 mm
- at the side	50 mm
for grounded parts at 500 V	20 mm
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm
• for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm 30 mm

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CE EG-Konf.			BUREAU VERITAS	LRS			
	alc	ales/ Test Repull	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Register			
	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report		Llovds	Confirmation		
Declaration of Con- formity	Test Certificates		Marine / Shipping		other		
				CUL	CA		
	<u>Confirmation</u>	ጫ	KC	EAC	UK		
General Product Appr	oval				Declaration of Con- formity		
Certificates/ approvals							
display version for switching status			ndle				
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front				
protection class IP on	protection class IP on the front according to IEC 60529			IP20			
T1 value for proof test interval or service life according to IEC 61508			10 a				
<ul> <li>with low demand rate according to SN 31920</li> </ul>			50 FIT				
failure rate [FIT]							
<ul> <li>with high demand rate according to SN 31920</li> </ul>		20 50	%				
• with low demand rate according to SN 31920		.0 50	%				
proportion of dangero	proportion of dangerous failures						
<ul> <li>with high demand</li> </ul>	rate according to SN 3192	20 5 0	00				
B10 value							
Safety related data							
<ul> <li>for main contacts</li> </ul>	for main contacts						
design of the thread o	f the connection screw						
size of the screwdrive	size of the screwdriver tip			Pozidriv size 2			
design of screwdriver	design of screwdriver shaft						
<ul> <li>for main contacts</li> </ul>	for main contacts with screw-type terminals		2.5 3 N·m				
tightening torque							
<ul> <li>for AWG cables f</li> </ul>	for AWG cables for main contacts						
— finely strand	led with core end processir	ng 1.	. 16 mm², max. 6 + 16 mm²	2			
— solid or stra	nded	1.	. 10 mm², max. 2x 10 mm²				
<ul> <li>for main contacts</li> </ul>							
	onductor cross-sections						
arrangement of electri circuit	cal connectors for main o	current To	p and bottom				
for main current of	circuit		ew-type terminals				
type of electrical conn	ection						
Connections/ Terminals							
— forwards		0 r	าฑ				
— at the side		30	mm				
— backwards		0 r	nm				
— upwards		70	mm				
— downwards		70	mm				
<ul> <li>for live parts at 69</li> </ul>	90 V						
— forwards		0 r	0 mm				
— at the side			mm				
— backwards		0 r	mm				
— upwards							





## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2811-1ED10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-1ED10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1ED10

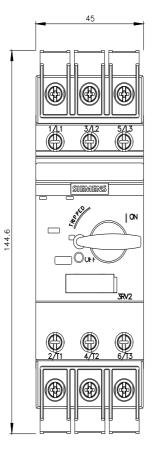
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

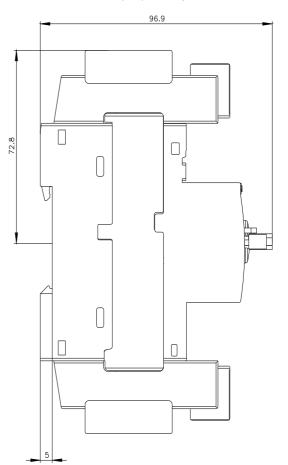
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2811-1ED10&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

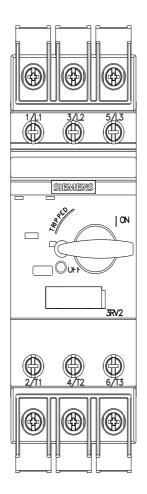
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1ED10/char

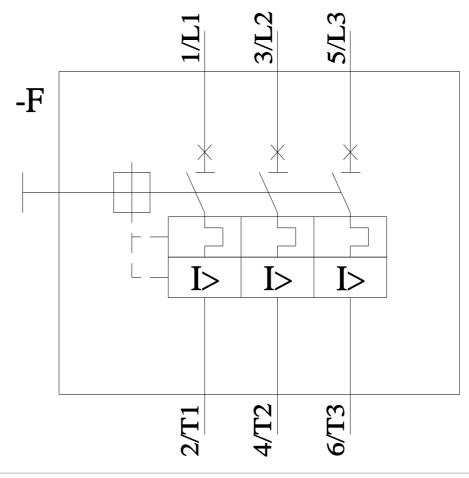
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1ED10&objecttype=14&gridview=view1





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