## SIEMENS

## Data sheet

## 3RV2811-0KD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 1.25 A N-release 26 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>	5.5 W				
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.8 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	25g / 11 ms				
mechanical service life (switching cycles)					
<ul> <li>of the main contacts typical</li> </ul>	100 000				
of auxiliary contacts typical	100 000				
electrical endurance (switching 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					
<ul> <li>during operation</li> </ul>	-20 +60 °C				
<ul> <li>during storage</li> </ul>	-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	1.25 A				
operational current					
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	1.25 A				
• at AC-3e at 400 V rated value	1.25 A				
operating power					

• at AC-3	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.4 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 kW
• at AC-3e	0.0 HW
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.4 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	No
design of the overload release	thermal
breaking capacity maximum short-circuit current (lcu)	
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	100 kA
at 480 AC Y/277 V according to UL 489 rated value	65 kA
breaking capacity operating short-circuit current (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
<ul> <li>at 500 V rated value</li> </ul>	100 kA
• at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip unit	26 A
Short-circuit protection	
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 500 V	gL/gG 16 A
• at 690 V	gL/gG 16 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting 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
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	

Confirmation CSA		[			
(Confirmation)	) 🕦 <sup>KC</sup> EA	[			
General Product Approval					
ertificates/ approvals					
display version for switching status	Handle				
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
60529					
IEC 61508 protection class IP on the front according to IEC	IP20				
T1 value for proof test interval or service life according to	10 у				
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT				
failure rate [FIT]					
• with high demand rate according to SN 31920	50 %				
• with low demand rate according to SN 31920	50 %				
proportion of dangerous failures					
• with high demand rate according to SN 31920	5 000				
B10 value					
afety related data					
• for main contacts	M4				
design of the thread of the connection screw					
size of the screwdriver tip	Pozidriv size 2				
design of screwdriver shaft	Diameter 5 to 6 mm				
for main contacts with screw-type terminals	2.5 3 N·m				
tightening torque					
at AWG cables for main contacts	2x (14 10)				
<ul> <li>— finely stranded with core end processing</li> </ul>	$1 \dots 16 \text{ mm}^2$ , max. $6 + 16 \text{ mm}^2$				
— solid or stranded	1 10 mm², max. 2x 10 mm²	1 10 mm². max. 2x 10 mm²			
for main contacts					
type of connectable conductor cross-sections					
arrangement of electrical connectors for main current circuit	Top and bottom				
for main current circuit	screw-type terminals				
type of electrical connection					
connections/ Terminals					
— forwards	0 mm				
— at the side	30 mm				
— backwards	0 mm				
— upwards	70 mm				
— downwards	70 mm				
• for live parts at 690 V					
— forwards	0 mm				
— at the side	30 mm				
— backwards	0 mm				
— upwards	70 mm				
— downwards	70 mm				
<ul> <li>for grounded parts at 690 V</li> </ul>					
— at the side	30 mm				
— upwards	30 mm				
— downwards	30 mm				
<ul> <li>for live parts at 500 V</li> </ul>					
— at the side	30 mm				
— upwards	30 mm				
— downwards	30 mm				

UK CA	C C EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	BUREAU VERITAS	Lloyds Register urs		
Marine / Shipping	other		Railway				
Further information	<u>Confirmation</u>		Vibration and Shock				
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=3RV2811-0KD10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-0KD10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0KD10							

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2811-0KD10&lang=en

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-0KD10&objecttype=14&gridview=view1

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Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0KD10/char

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