## **SIEMENS**

Data sheet 3RV2811-0HD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 0.8 A N-release 16 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
at AC in hot operating state per pole	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	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.8 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.8 A
at AC-3e at 400 V rated value	0.8 A
operating power	

• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.2 kW
— at 500 V rated value	0.3 kW
— at 690 V rated value	0.4 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.2 kW
— at 500 V rated value	0.3 kW
— at 690 V rated value	0.4 kW
operating frequency	
at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
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
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 (Icu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	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	16 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 690 V	gL/gG 6 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
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm

	30 mm
— upwards	
— at the side	30 mm
• for live parts at 500 V	22
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
— downwards	70 mm
— upwards	70 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
<ul> <li>for live parts at 690 V</li> </ul>	
— downwards	70 mm
— upwards	70 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	Top dire bottom
type of connectable conductor cross-sections	
for main contacts	
<ul><li>— solid or stranded</li></ul>	1 10 mm², max. 2x 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	1 16 mm², max. 6 + 16 mm²
at AWG cables for main contacts	2x (14 10)
tightening torque	
for main contacts with screw-type terminals	2.5 3 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
	Pozidriv size 2
size of the screwdriver tip	FOZIUTIV SIZE Z
size of the screwdriver tip  design of the thread of the connection screw	FUZIUIIV SIZE Z
<u> </u>	M4
design of the thread of the connection screw	
design of the thread of the connection screw  • for main contacts	
design of the thread of the connection screw • for main contacts  Safety related data	
design of the thread of the connection screw	M4
design of the thread of the connection screw	M4 5 000
design of the thread of the connection screw	5 000 50 %
design of the thread of the connection screw	M4 5 000
design of the thread of the connection screw	5 000 50 % 50 %
design of the thread of the connection screw	M4  5 000  50 %  50 %  50 FIT
design of the thread of the connection screw	5 000 50 % 50 %
design of the thread of the connection screw	M4  5 000  50 %  50 %  50 FIT
design of the thread of the connection screw	5 000 50 % 50 % 50 FIT 10 y
design of the thread of the connection screw	5 000 50 % 50 % 50 FIT 10 y IP20
design of the thread of the connection screw	5 000 50 % 50 % 50 FIT 10 y IP20 finger-safe, for vertical contact from the front
design of the thread of the connection screw	5 000 50 % 50 % 50 FIT 10 y IP20 finger-safe, for vertical contact from the front



Confirmation





<u>KC</u>



Declaration of Conformity Test Certificates Marine / Shipping



## Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

## **Further information**

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=3RV2811-0HD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-0HD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0HD10

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2811-0HD10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0HD10/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-0HD10&objecttype=14&gridview=view1

last modified: 6/25/2022 🖸