## **SIEMENS**

Data sheet 3RV2811-1JD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 10 A N-release 208 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>	9.25 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.1 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	10 A	
operational current		
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	10 A	
at AC-3e at 400 V rated value	10 A	
operating power		

4400	
• at AC-3	0.0111
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
<ul> <li>at AC-3e maximum</li> </ul>	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
	ulennal
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
at AC at 500 V rated value	42 kA
at AC at 690 V rated value	6 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>	42 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	208 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 400 V	gL/gG 50 A
● at 500 V	gL/gG 40 A
• at 690 V	gL/gG 40 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	
• for grounded parts at 400 V	
— 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
— at the side	VV IIIII

● for grounded parts at 500 V		
— 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	
• for grounded parts at 690 V		
— downwards	70 mm	
— upwards	70 mm	
— backwards	0 mm	
— at the side	30 mm	
— forwards	0 mm	
• for live parts at 690 V		
— 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 circuit	Top and bottom	
type of connectable conductor cross-sections		
for main contacts		
— solid or stranded	1 10 mm², max. 2x 10 mm²	
finely stranded with core end processing	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	
size of the screwdriver tip	Pozidriv size 2	
design of the thread of the connection screw		
• for main contacts	M4	
Safety related data		
B10 value		
with high demand rate according to SN 31920	5 000	
proportion of dangerous failures	0 000	
with low demand rate according to SN 31920	50 %	
with high demand rate according to SN 31920     with high demand rate according to SN 31920	50 %	
failure rate [FIT]	00 /0	
with low demand rate according to SN 31920	50 FIT	
T1 value for proof test interval or service life according to IEC 61508	10 y	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Handle	
Certificates/ approvals		
		Declaration of
General Product Approval		Conformity
<u>Confirmation</u>	KC PMP	









**Declaration of** Conformity

**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>







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=3RV2811-1JD10

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1JD10

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2811-1JD10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1JD10/char

Further characteristics (e.g. electrical endurance, switching frequency) <a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1JD10&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1JD10&objecttype=14&gridview=view1</a>

last modified: 6/25/2022