SIEMENS

Data sheet 3RV2811-0BD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 0.2 A N-release 4.2 A screw terminal Standard switching capacity

product brand name product designation design of the product product type designation SIRIUS Circuit breaker

For transformer protection according to UL 489/CSA C22.2 No.5

3RV2

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	
 at AC in hot operating state 	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 (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	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	
rated value	20 690 V
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.2 A
operational current	
 at AC-3 at 400 V rated value 	0.2 A
 at AC-3e at 400 V rated value 	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0.1 kW

— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0.1 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 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	Ma
ground fault detection	No No
phase failure detection design of the everland release.	No thermal
design of the overload release	uleilliai
maximum short-circuit current breaking capacity (Icu)	100 kA
at AC at 400 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
operating short-circuit current breaking capacity (lcs) 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	100 kA
response value current of instantaneous short-circuit trip	4.2 A
unit	
unit	Yes
unit Short-circuit protection	Yes magnetic
unit Short-circuit protection product function short circuit protection	
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions	magnetic
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position	magnetic
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unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — upwards — at the side • at the side	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — upwards — upwards — upwards	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — upwards — upwards — upwards — upwards	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — upwards	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for grounded parts at 690 V	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
unit Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm

 backwards 0 mm - at the side 30 mm - forwards 0 mm • for live parts at 690 V - downwards 70 mm 70 mm upwards - backwards 0 mm — at the side 30 mm - forwards 0 mm

type of electrical connection

• for main current circuit

arrangement of electrical connectors for main current circuit

type of connectable conductor cross-sections

• for main contacts

- solid or stranded

- finely stranded with core end processing

• at AWG cables for main contacts

tightening torque

• for main contacts with screw-type terminals

design of screwdriver shaft size of the screwdriver tip

design of the thread of the connection screw

• for main contacts

screw-type terminals Top and bottom

1 ... 10 mm², max. 2x 10 mm² 1 ... 16 mm², max. 6 + 16 mm²

2x (14 ... 10)

2.5 ... 3 N·m Diameter 5 to 6 mm Pozidriv size 2

M4

Safety related data

B10 value

• with high demand rate according to SN 31920

proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT]

with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC

touch protection on the front according to IEC 60529

display version for switching status

5 000

50 %

50 %

50 FIT

10 a

IP20

finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

General Product Approval

Declaration of Conformity



Confirmation



KC





Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certific-







other Railway



Further information

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=3RV2811-0BD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-0BD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0BD10

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

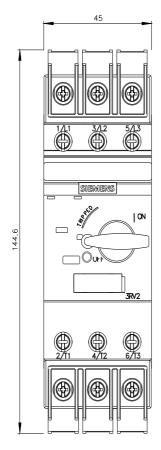
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-0BD10&lang=en

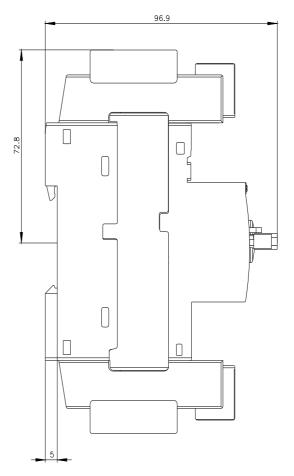
Characteristic: Tripping characteristics, I2t, Let-through current

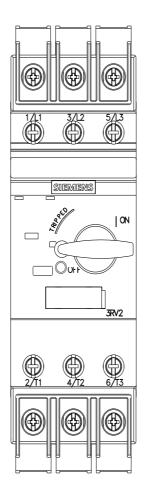
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0BD10/char

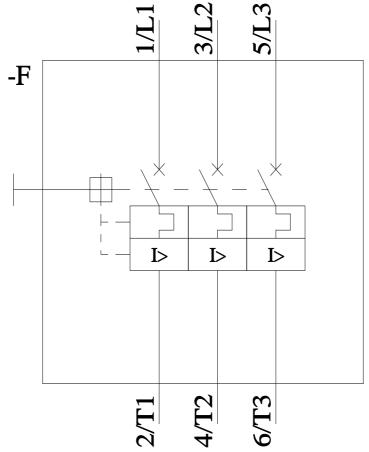
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-0BD10&objecttype=14&gridview=view1









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