



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
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

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 Prohibition (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 0.8 A
operational current

- at AC-3 at 400 V rated value 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 — at 690 V rated value • at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value	0.3 kW 0.4 kW 0.1 kW 0.2 kW 0.3 kW 0.4 kW
operating frequency	
• at AC-3 maximum • at AC-3e maximum	15 1/h 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 • phase failure detection	No No
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 480 AC Y/277 V according to UL 489 rated value	100 kA 100 kA 100 kA 100 kA 65 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	100 kA 100 kA 100 kA 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 DIN rail according to DIN EN 60715
height	144 mm
width	45 mm
depth	97 mm
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 grounded parts at 690 V	30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm

— 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

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 60529

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](#)



EG-Konf.

Declaration of Conformity

Test Certificates

Marine / Shipping



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



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=3RV2811-0HD10>

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, ...)

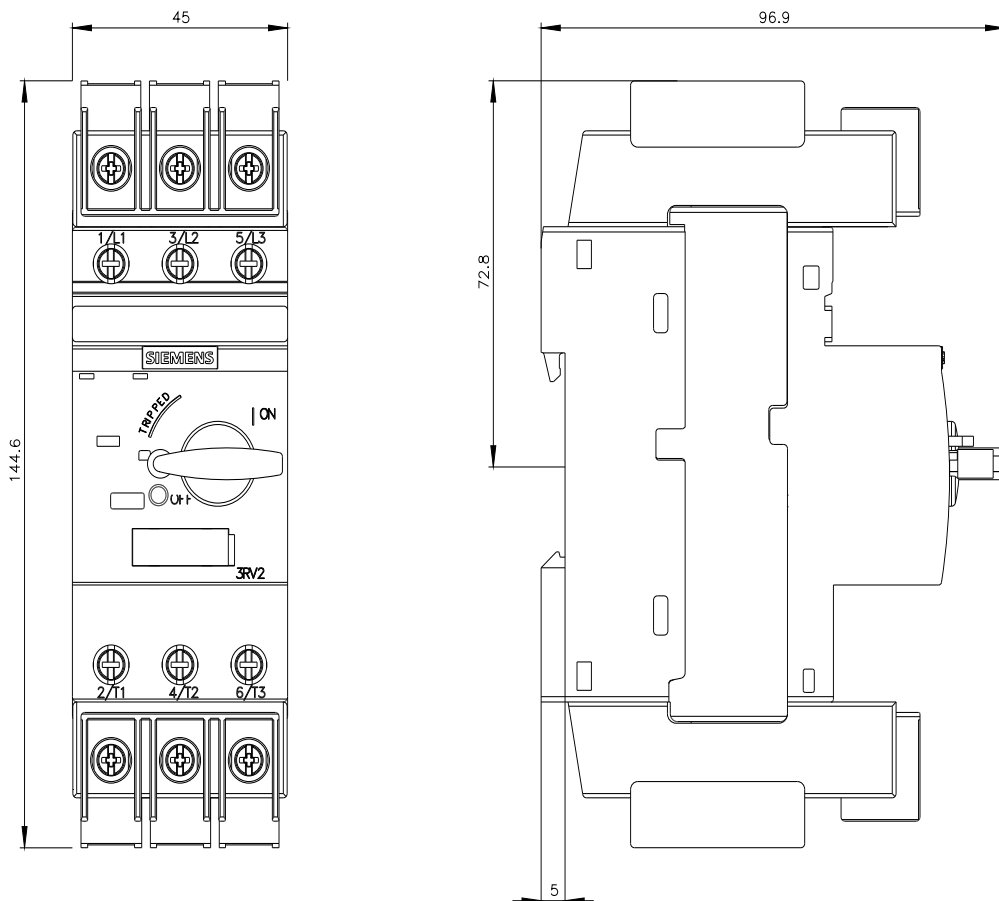
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-0HD10&lang=en

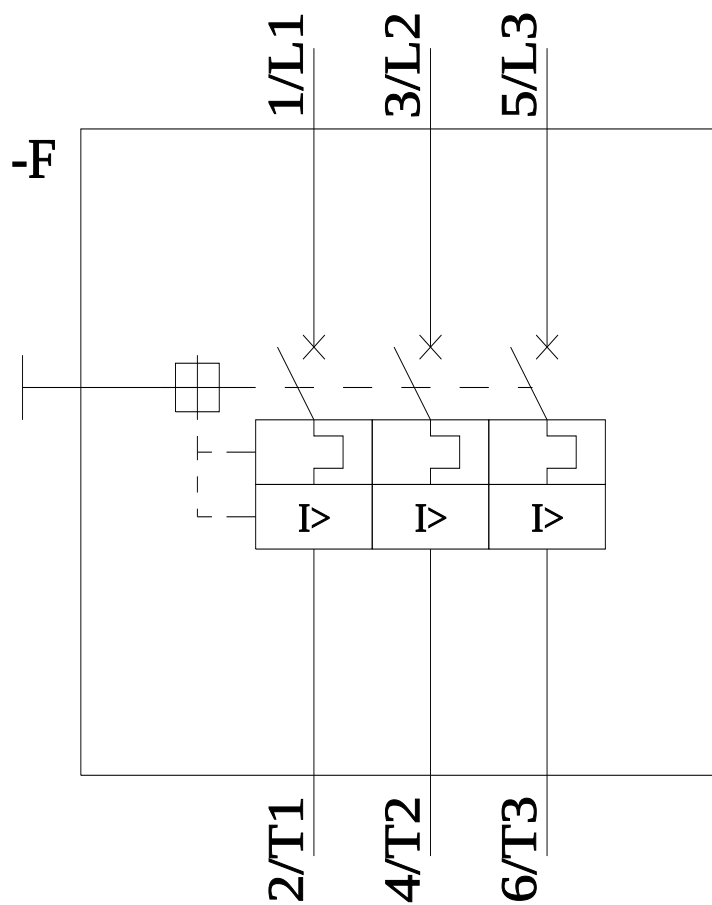
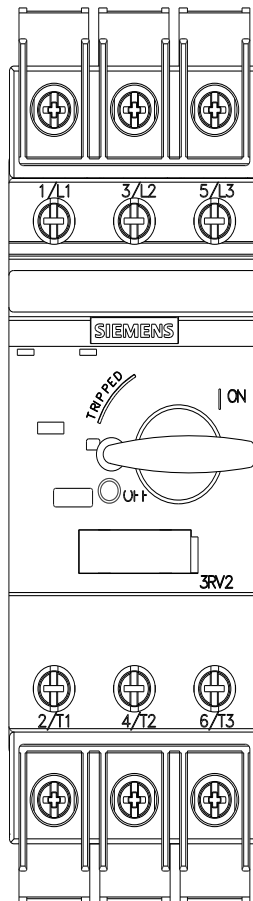
Characteristic: Tripping characteristics, I^2t , Let-through current

<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>





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