SIEMENS

Data sheet 3RV2811-1CD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 2.5 A N release 52 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 	7.25 W
 at AC in hot operating state per pole 	2.4 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	2.5 A
operational current	
 at AC-3 at 400 V rated value 	2.5 A
 at AC-3e at 400 V rated value 	2.5 A
operating power	
• at AC-3	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.8 kW

 at 500 V rated value 	1.1 kW
— at 690 V rated value	1.5 kW
• at AC-3e	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.8 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 kW
operating frequency	1.0 (())
• 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
maximum short-circuit current breaking capacity (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	100 kA
at AC at 690 V rated value	10 kA
at 480 AC Y/277 V according to UL 489 rated value	65 kA
operating short-circuit current breaking capacity (Ics)	00 104
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	10 kA
response value current of instantaneous short-circuit trip	52 A
unit	
unit	
unit Short-circuit protection	Yes
Short-circuit protection product function short circuit protection	Yes
unit Short-circuit protection product function short circuit protection design of the short-circuit trip	Yes magnetic
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit	
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	magnetic
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V	magnetic gL/gG 25 A
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V	magnetic gL/gG 25 A gL/gG 25 A
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V	magnetic gL/gG 25 A
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V	magnetic gL/gG 25 A gL/gG 25 A
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 400 V at 500 V at 690 V	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 400 V at 500 V at 690 V Installation/ mounting/ dimensions	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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 — upwards — upwards	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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 — at the side • for grounded parts at 500 V — downwards	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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 design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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
unit Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V 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	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A 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

- at the side 30 mm • for grounded parts at 690 V 70 mm - downwards upwards 70 mm - backwards 0 mm 30 mm - at the side - 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 **Connections/ Terminals** type of electrical connection • for main current circuit screw-type terminals arrangement of electrical connectors for main current Top and bottom type of connectable conductor cross-sections for main contacts - solid or stranded 1 ... 10 mm², max. 2x 10 mm² 1 ... 16 mm², max. 6 + 16 mm² - finely stranded with core end processing • 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 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 • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] 50 FIT • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to 10 a IEC 61508 protection class IP on the front according to IEC IP20 60529 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 Confirmation KC

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=3RV2811-1CD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-1CD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1CD10

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

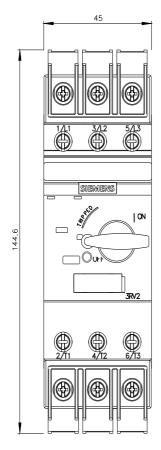
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-1CD10&lang=en

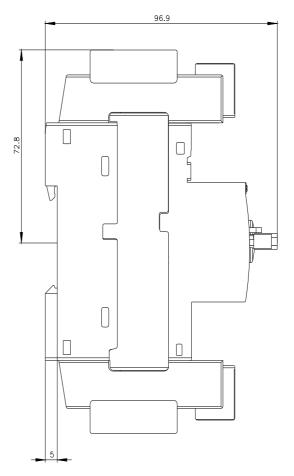
Characteristic: Tripping characteristics, I2t, Let-through current

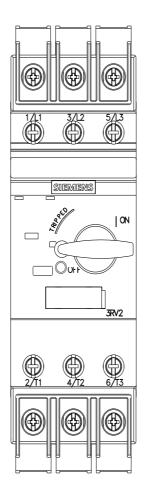
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1CD10/char

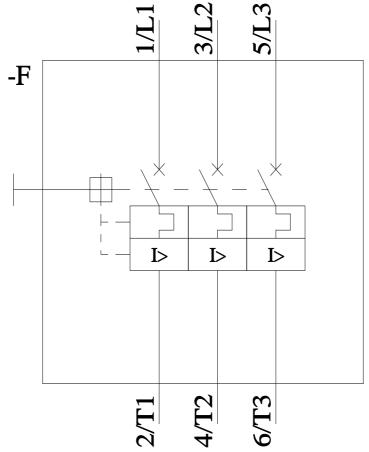
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1CD10&objecttype=14&gridview=view1









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