SIEMENS

Data sheet 3RV2811-0CD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 0.25 A N-release 5.2 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			
 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	25 g / 11 ms (rectangular impulse and sine pulse)		
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	0.25 A		
operational current			
• at AC-3 at 400 V rated value	0.25 A		
• at AC-3e at 400 V rated value	0.25 A		
operating power			
• at AC-3			
447100			

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 30 mm — downwards 30 mm — at the side 30 mm • for grounded parts at 500 V 30 mm — at the side 30 mm • for live parts at 500 V 30 mm — at the side 30 mm • for live parts at 500 V 30 mm — at the side 30 mm • for grounded parts at 690 V 30 mm — downwards 70 mm • for grounded parts at 690 V 70 mm — upwards 70 mm				
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	— 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		
operating frequency	— at 400 V rated value	0.1 kW		
operating frequency	— at 500 V rated value	0.1 kW		
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	Protective and monitoring functions			
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depth 97 mm required spacing	Installation/ mounting/ dimensions mounting position fastening method	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
required spacing	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		
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 — upwards — at the side — of or grounded parts at 500 V — downwards — upwards — at the side — at the side — for live parts at 500 V — downwards — upwards — upwards — at the side — of or grounded parts at 690 V — downwards — upwards — upwards — upwards — of or grounded parts at 690 V — downwards — upwards — upwards — of or grounded parts at 690 V — downwards — upwards — upwards — of or grounded parts at 690 V — of or grou	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		
- at the side • for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - upwards - upwards - upwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards • for grounded parts at 690 V - downwards - upwards - upwards 70 mm	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		
 for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards upwards upwards upwards at the side on m upwards at the side for grounded parts at 690 V downwards upwards 70 mm upwards upwards 70 mm 	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		
— downwards 30 mm — upwards 30 mm — at the side 30 mm • for live parts at 500 V 30 mm — downwards 30 mm — upwards 30 mm • for grounded parts at 690 V 70 mm — upwards 70 mm	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	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		
— upwards 30 mm — at the side 30 mm ● for live parts at 500 V 30 mm — downwards 30 mm — upwards 30 mm ● for grounded parts at 690 V 70 mm — upwards 70 mm	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 • at the side • for live 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 30 mm 30 mm		
 — at the side ● for live parts at 500 V — downwards — upwards — at the side ● for grounded parts at 690 V — downwards — upwards 70 mm — upwards 70 mm 	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 — at the side • for grounded 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		
 for live parts at 500 V downwards upwards at the side for grounded parts at 690 V downwards upwards 70 mm upwards 70 mm 	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 400 V — downwards — upwards — at the side • for grounded 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		
 — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards 70 mm 70 mm 	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	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		
 — upwards — at the side • for grounded parts at 690 V — downwards — upwards 70 mm 70 mm 	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	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		
 — at the side ● for grounded parts at 690 V — downwards — upwards 30 mm 70 mm 70 mm 	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		
 for grounded parts at 690 V — downwards — upwards 70 mm 70 mm 	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 — 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		
downwardsupwards70 mm70 mm	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 — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 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 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm		
— upwards 70 mm	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 — downwards — 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		
·	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 grounded 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		
	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 — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 690 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 70 mm		
	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 grounded parts at 690 V — downwards — at the side • for grounded parts at 690 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 70 mm 70 mm		
	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 grounded parts at 690 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — at backwards	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 70 mm 70 mm 70 mm 0 mm		
— forwards 0 mm	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 grounded parts at 690 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — at the side • for grounded parts at 690 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 70 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			
for 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				
 with low demand rate according to SN 31920 	50 %			
with high demand rate according to SN 31920	50 %			
failure rate [FIT]				
with low demand rate according to SN 31920	50 FIT			
T1 value for proof test interval or service life according to IEC 61508	10 a			
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				
General Product Approval		Declaration of Conformity		

Confirmation



<u>KC</u>





Declaration of Conformity

Test Certificates

Marine / Shipping

other

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

Type Test Certificates/Test Report





Confirmation

other

Railway



Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RV2811-0CD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-0CD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0CD10

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

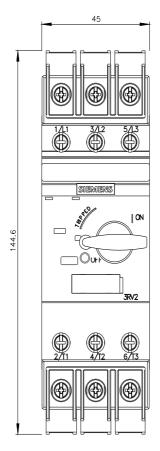
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-0CD10&lang=en

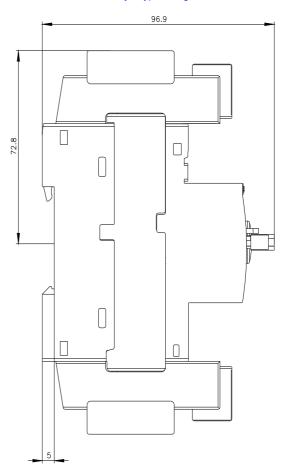
Characteristic: Tripping characteristics, I2t, Let-through current

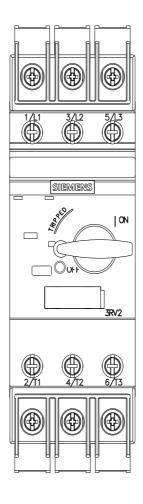
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0CD10/char

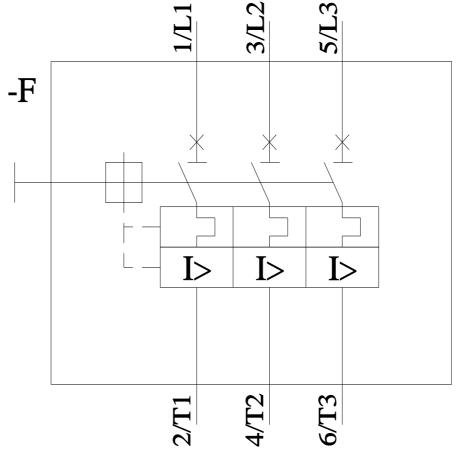
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-0CD10&objecttype=14&gridview=view1









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