SIEMENS

3RV2811-1GD10 **Data sheet**





Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 6.3 A N release 130 A screw terminal Standard



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 	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	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
SVHC substance name	Lead - 7439-92-1
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	6.3 A
operational current	
 at AC-3 at 400 V rated value 	6.3 A

1.40.0 1.400.11 1.11	
at AC-3e at 400 V rated value	6.3 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	2.2 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	TAVV
	4.5.1344
— at 230 V rated value	1.5 kW
— at 400 V rated value	2.2 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating frequency	
• at AC-3 maximum	15 1/h
 at AC-3e maximum 	15 1/h
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 at AC at 400 V rated value	100 kA
	100 KA 100 KA
at AC at 500 V rated value	
at AC at 690 V rated value	6 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	4 kA
response value current of instantaneous short-circuit trip unit	130 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	gG 50 A
• at 500 V	
	gG 40 A
• at 690 V	gG 40 A gG 35 A
• at 690 V Installation/ mounting/ dimensions	gG 35 A
at 690 V Installation/ mounting/ dimensions mounting position	gG 35 A any
• at 690 V Installation/ mounting/ dimensions mounting position fastening method	gG 35 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
• at 690 V Installation/ mounting/ dimensions mounting position fastening method height	gG 35 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width	gG 35 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth	gG 35 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	gG 35 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm
at 690 V 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
at 690 V 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
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at 690 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
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at 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
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	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
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at 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
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	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
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at 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
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at for grounded parts at 400 V — downwards — upwards — at the side for live parts at 400 V — downwards — upwards — 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
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at 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 upwards — at the side 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
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at 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 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
at 690 V 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 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing at 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 — 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 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 — 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

— 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	Ollilli
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	4. 40 mans? many 04.40 mass?
— 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	
product function suitable for safety function	Yes
suitability for use	
 safety-related switching on 	No
 safety-related switching OFF 	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 51920	5 0 0 0 5 0 FIT
31920	00111
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
for proof test interval or service life according to IEC	10 a
61508	10 u
Electrical Safety	
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	
display version for switching status	Handle
Approvals Certificates	- Million
General Product Approval	





Confirmation





<u>KC</u>

General Product Approval

Test Certificates

Marine / Shipping

other

EAC

Special Test Certificate

Type Test Certificates/Test Report





Miscellaneous

other

Railway

Environment

Confirmation



Special Test Certificate



Siemens EcoTech



Environmental Confirmations

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=3RV2811-1GD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-1GD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1GD10

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

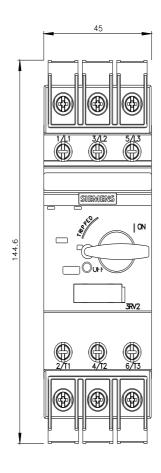
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-1GD10&lang=en

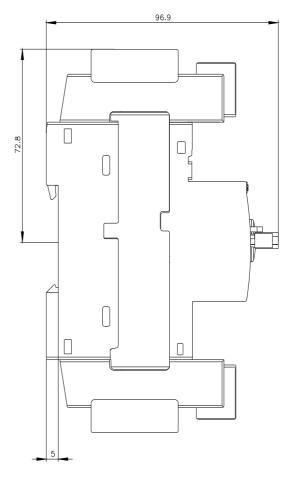
Characteristic: Tripping characteristics, l^2t , Let-through current

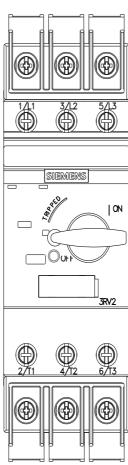
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1GD10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1GD10&objecttype=14&gridview=view1









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