SIEMENS

Data sheet

3RV2811-1AD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 1.6 A N-release 33 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 	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
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	1.6 A
operational current	
 at AC-3 at 400 V rated value 	1.6 A
• at AC-3e at 400 V rated value	1.6 A
operating power	
• at AC-3	
— at 230 V rated value	0.3 kW

— at 400 V rated value	0.6 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
● at AC-3e	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.6 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 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 (lcu)	
• 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	100 kA
• at 480 AC Y/277 V according to UL 489 rated value	65 kA
operating short-circuit current breaking capacity (Ics) 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 unit	33 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
	magnetic
design of the short-circuit trip design of the fuse link for IT network for short-circuit	magnetic gG 20 A
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V	gG 20 A
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V	gG 20 A
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V Installation/ mounting/ dimensions	gG 20 A gG 16 A
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position	gG 20 A gG 16 A any
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	gG 20 A gG 16 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height	gG 20 A gG 16 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width	gG 20 A gG 16 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth	gG 20 A gG 16 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	gG 20 A gG 16 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V	gG 20 A gG 16 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • 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	gG 20 A gG 16 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — upwards	gG 20 A gG 16 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
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • 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	gG 20 A gG 16 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
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • 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	gG 20 A gG 16 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
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			0 mm		
— at the side			30 mm		
— forwards			0 mm		
 for live parts at 6 	90 V				
- downwards			70 mm		
— upwards			70 mm		
— backwards			0 mm		
— at the side			30 mm		
— forwards			0 mm		
Connections/ Terminals	1				
type of electrical conr					
 for main current 			screw-type terminals		
	ical connectors for main c	current	Top and bottom		
	onductor cross-sections				
 for main contacts 					
— solid or stra	nded		1 10 mm², max. 2x 10 mm²		
	ded with core end processin	na	1 16 mm², max. 6 + 16 mm²		
 for AWG cables to 			2x (14 10)		
tightening torque					
	with corput type terminele		2.5 3 N·m		
	with screw-type terminals				
design of screwdriver			Diameter 5 to 6 mm		
size of the screwdrive	-		Pozidriv size 2		
-	f the connection screw		N44		
 for main contacts 	i		M4		
Safety related data					
B10 value					
	d rate according to SN 3192	20	5 000		
proportion of dangero	ous failures				
 with low demand 	rate according to SN 31920	0	50 %		
 with high deman 	d rate according to SN 3192	20	50 %		
failure rate [FIT]					
with low demand rate according to SN 31920					
 with low demand 	rate according to SN 31920	0	50 FIT		
T1 value for proof test i	rate according to SN 31920 nterval or service life accord		50 FIT 10 a		
T1 value for proof test i 61508	nterval or service life accord	ding to IEC	10 a		
T1 value for proof test i 61508 protection class IP on	the front according to IE	ding to IEC C 60529	10 a IP20		
T1 value for proof test i 61508 protection class IP on	nterval or service life accord	ding to IEC C 60529	10 a	om the front	
T1 value for proof test i 61508 protection class IP on touch protection on th display version for swite	the front according to IEC	ding to IEC C 60529	10 a IP20	om the front	
T1 value for proof test i 61508 protection class IP on touch protection on th	the front according to IEC	ding to IEC C 60529	10 a IP20 finger-safe, for vertical contact fr	om the front	
T1 value for proof test i 61508 protection class IP on touch protection on th display version for swite	the front according to IEC the front according to IEC the front according to IEC (thing status	ding to IEC C 60529	10 a IP20 finger-safe, for vertical contact fr	om the front	Declaration of Con- formity
T1 value for proof test i 61508 protection class IP on touch protection on th display version for swite Certificates/ approvals	the front according to IEC the front according to IEC the front according to IEC (thing status	ding to IEC C 60529	10 a IP20 finger-safe, for vertical contact fr Handle	om the front	
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T1 value for proof test i 61508 protection class IP on touch protection on the display version for swite Certificates/ approvals General Product App	the front according to IEC the front according to IEC the front according to IEC (thing status	ding to IEC C 60529	10 a IP20 finger-safe, for vertical contact fr Handle		formity CE
T1 value for proof test i 61508 protection class IP on touch protection on the display version for swite Certificates/ approvals General Product App	the front according to IEC the front according to IEC the front according to IEC thing status roval	ding to IEC C 60529	10 a IP20 finger-safe, for vertical contact fr Handle		formity CEC EG-Konf.
T1 value for proof test i 61508 protection class IP on touch protection on th display version for swite Certificates/ approvals General Product App <u>Confirmation</u>	the front according to IEC the front according to IEC the front according to IEC (thing status	ding to IEC C 60529	10 a IP20 finger-safe, for vertical contact fr Handle		formity CE
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Further information

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

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

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=3RV2811-1AD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-1AD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1AD10

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

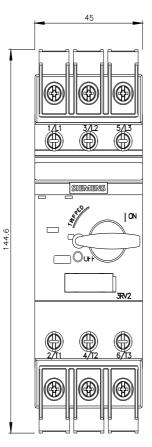
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-1AD10&lang=en

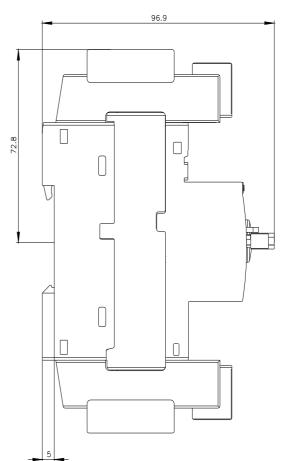
Characteristic: Tripping characteristics, I²t, Let-through current

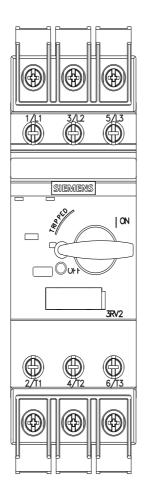
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1AD10/char

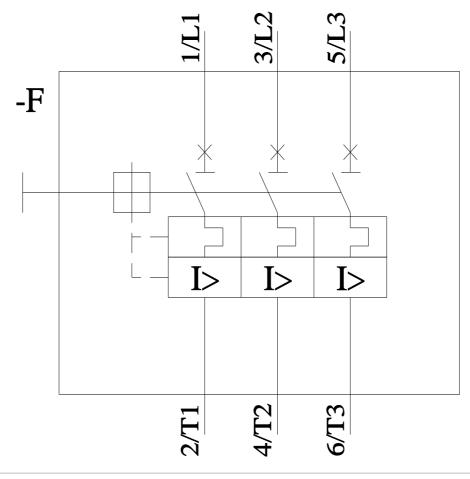
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1AD10&objecttype=14&gridview=view1









5/1/2023 🖸

7/10/2023