# SIEMENS

#### Data sheet

### 3RV2811-1FD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 5 A N-release 104 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			
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	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)			
<ul> <li>of the main contacts typical</li> </ul>	100 000		
<ul> <li>of auxiliary contacts typical</li> </ul>	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			
<ul> <li>during operation</li> </ul>	-20 +60 °C		
<ul> <li>during storage</li> </ul>	-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		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V		
operating frequency rated value	50 60 Hz		
operational current rated value	5 A		
operational current			
• at AC-3 at 400 V rated value	5 A		
• at AC-3e at 400 V rated value	5 A		
operating power			
• at AC-3			
— at 230 V rated value	1.1 kW		

— at 400 V rated value	1.5 kW		
— at 500 V rated value	2.2 kW		
— at 690 V rated value	4 kW		
• at AC-3e			
— at 230 V rated value	1.1 kW		
— at 400 V rated value	1.5 kW		
— at 500 V rated value	2.2 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			
<ul> <li>ground fault detection</li> </ul>	No		
<ul> <li>phase failure detection</li> </ul>	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	6 kA		
<ul> <li>at 480 AC Y/277 V according to UL 489 rated value</li> </ul>	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	4 kA		
response value current of instantaneous short-circuit trip unit	104 A		
Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	magnetic		
design of the fuse link for IT network for short-circuit	magnetic gG 32 A		
design of the fuse link for IT network for short-circuit protection of the main circuit			
design of the fuse link for IT network for short-circuit protection of the main circuit ● at 400 V	gG 32 A		
design of the fuse link for IT network for short-circuit protection of the main circuit ● at 400 V ● at 500 V	gG 32 A gG 32 A		
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	gG 32 A gG 32 A		
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	gG 32 A gG 32 A gG 25 A		
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	gG 32 A gG 32 A gG 25 A any		
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	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
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	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm		
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	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm		
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	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm		
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	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm		
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	gG 32 A gG 32 A gG 25 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 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	gG 32 A gG 32 A gG 25 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 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	gG 32 A gG 32 A gG 25 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 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         — at the side         • for live parts at 400 V	gG 32 A gG 32 A gG 25 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		
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	gG 32 A gG 32 A gG 25 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		
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 — upwards — upwards — upwards — upwards	gG 32 A gG 32 A gG 25 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		
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         — at the side         • for live parts at 400 V         — downwards         — at the side         • for live parts at 400 V         — downwards         — at the side         • for live parts at 400 V         — downwards         — at the side	gG 32 A gG 32 A gG 25 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		
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 — at the side • for live parts at 400 V — downwards — at the side • for grounded parts at 500 V	gG 32 A gG 32 A gG 25 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		
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	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm		
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 — at the side • for live parts at 400 V — downwards — at the side • for live parts at 400 V — downwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — upwards	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm		
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	gG 32 A gG 32 A gG 25 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		
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 — 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	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm		
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 — downwards — upwards — at the side	gG 32 A gG 32 A gG 25 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		
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 — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — upwards — at the side • for live parts at 500 V — downwards — upwards — upwards	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 97 mm 30 mm		
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 — 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 live parts at 500 V — downwards — upwards — at the side	gG 32 A gG 32 A gG 25 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		
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 — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — upwards — at the side • for live parts at 500 V — downwards — upwards — upwards	gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm 97 mm 97 mm 30 mm		

— upwards		70 r				
— backwards		0 m				
— at the side			0 mm			
— forwards		0 m	m			
<ul> <li>for live parts at 6</li> </ul>						
- downwards	S	70 r				
— upwards		70 r				
— backwards		0 m				
— at the side		30 r	30 mm			
- forwards		0 m	m			
<b>Connections/ Terminal</b>	S					
type of electrical con	nection					
<ul> <li>for main current</li> </ul>	circuit	scre	screw-type terminals			
arrangement of elect	rical connectors for main curr	rent Top	op and bottom			
type of connectable of	conductor cross-sections					
<ul> <li>for main contact</li> </ul>	S					
- solid or str	anded	1	10 mm², max. 2x 10 mm²			
— finely stran	nded with core end processing	1	16 mm², max. 6 + 16 mm²			
<ul> <li>for AWG cables</li> </ul>	for main contacts	2x (	2x (14 10)			
tightening torque						
<ul> <li>for main contact</li> </ul>	s with screw-type terminals	2.5	3 N·m			
design of screwdrive	r shaft	Diar	Diameter 5 to 6 mm			
size of the screwdrive	er tip	Poz	idriv size 2			
design of the thread	of the connection screw					
<ul> <li>for main contact</li> </ul>	.S	M4				
Safety related data						
B10 value						
<ul> <li>with high demar</li> </ul>	nd rate according to SN 31920	5 00	00			
proportion of dangerous failures						
with low demand rate according to SN 31920		50 %	50 %			
<ul> <li>with high demand rate according to SN 31920</li> </ul>		50 9	50 %			
failure rate [FIT]						
with low demand rate according to SN 31920		50 F	50 FIT			
T1 value for proof test interval or service life according to IEC		to IEC 10 a	10 a			
61508						
protection class IP or	n the front according to IEC 60	0529 IP20	IP20			
touch protection on the front according to IEC 60529		29 fing	finger-safe, for vertical contact from the front			
display version for swit	•	Han	Handle			
Certificates/ approvals						
General Product App	proval				Declaration of Con- formity	
	<b>Confirmation</b>	ŝ	<u>KC</u>	F 11 F	UK CA	
$(\mathbf{m})$		(VL)		EAC	ZZ	
<u> </u>		$\mathbf{}$		LIIL	CA	
Declaration of Con-	Test Oct				- 44	
formity	Test Certificates		Marine / Shipping		other	
"	<u>Type Test Certific-</u> <u>Sp</u> ates/Test Report	ecial Test Certific- ate		Llovds	Confirmation	
	allor rest hepoli		("或重")	Register		
EG-Konf.			BUREAU	LRS		
			VERITAS			
other	Railway					
	Naliway					
	Railway					





#### 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=3RV2811-1FD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-1FD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1FD10

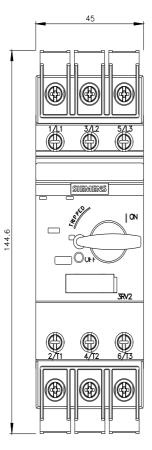
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

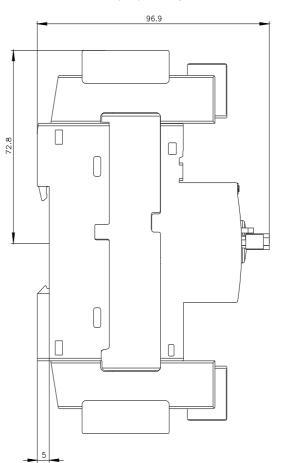
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2811-1FD10&lang=en

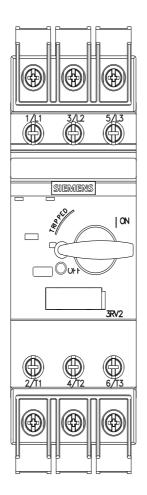
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

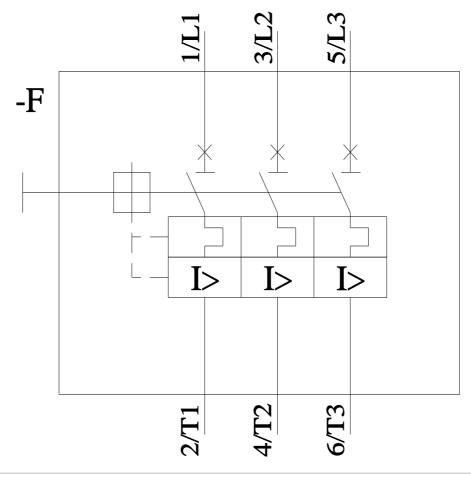
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1FD10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1FD10&objecttype=14&gridview=view1









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