SIEMENS

Data sheet

3RV2811-1KD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 12.5 A N-release 260 A screw terminal Standard switching capacity

product brand name	SIRIUS	
•	Circuit breaker	
product designation		
design of the product	For transformer protection according to UL 489/CSA C22.2 No.5	
product type designation	3RV2	
General technical data	000	
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	9.25 W	
at AC in hot operating state per pole	3.1 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	12.5 A	
operational current		
• at AC-3 at 400 V rated value	12.5 A	
• at AC-3e at 400 V rated value	12.5 A	
operating power		
• at AC-3		
— at 230 V rated value	3 kW	

— at 400 V rated value	5.5 kW		
— at 500 V rated value	7.5 kW		
— at 690 V rated value	7.5 kW		
• at AC-3e			
— at 230 V rated value	3 kW		
— at 400 V rated value	5.5 kW		
— at 500 V rated value	7.5 kW		
— at 690 V rated value	7.5 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	100 kA		
at AC at 500 V rated value	42 kA		
at AC at 500 V rated value at AC at 690 V rated value	42 NA 6 KA		
 at 480 AC Y/277 V according to UL 489 rated value 	65 kA		
operating short-circuit current breaking capacity (Ics) at AC	CO KA		
	100 //4		
at 240 V rated value	100 kA		
• at 400 V rated value	100 kA		
at 500 V rated value	42 kA		
at 690 V rated value	4 kA		
response value current of instantaneous short-circuit trip unit	260 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 63 A		
• at 500 V	gG 50 A		
• at 690 V	gG 40 A		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
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			
- downwards	30 mm		
— upwards	30 mm		
— upwards — at the side	30 mm		
	50 mm		
for grounded parts at 500 V	20 mm		
— downwards	30 mm		
— upwards	30 mm		
— at the side	30 mm		
• for live parts at 500 V			
— downwards	30 mm		
— upwards	30 mm		
— at the side	30 mm		
 for grounded parts at 690 V 			
• for grounded parts at 000 V			

— 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			
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			
		Declaration of Con-	
General Product Approval		formity	
	кс ГПГ	UK	
		UK CA	
Declaration of Con- formity Test Certificates	Marine / Shipping	other	
Special Test Certific- Type Test Cert	ertific-	Confirmation	
CE <u>ate</u> <u>ates/Test Re</u>		<u> </u>	
EG-Konf.			
other 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=3RV2811-1KD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-1KD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1KD10

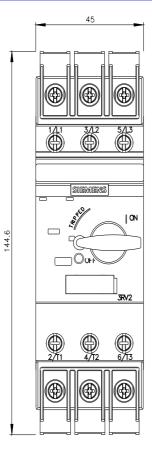
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

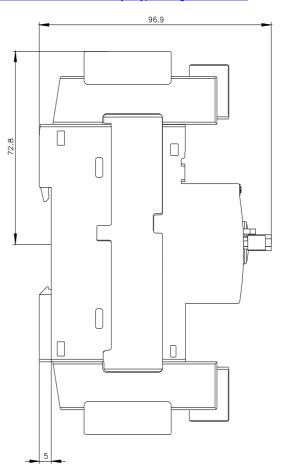
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-1KD10&lang=en

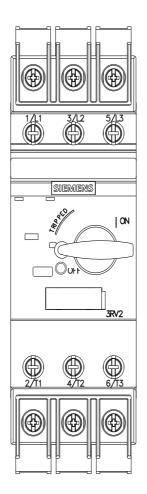
Characteristic: Tripping characteristics, I²t, Let-through current

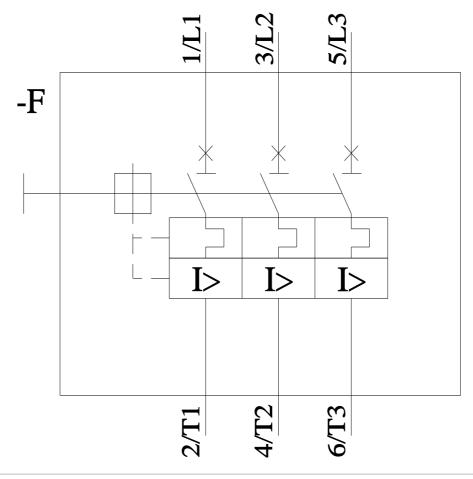
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1KD10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1KD10&objecttype=14&gridview=view1









5/1/2023 🖸

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