SIEMENS

Data sheet

3RV2811-1HD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 8 A N-release 163 A screw terminal Standard switching capacity

product brand name SIRIUS groduct designation Circuit breaker design of the product For transformer protection according to UL 489/CSA C22.2 No.5 product designation 3RV2 contral tachnical data		
design of the product For transformer protection according to UL 489/CSA C22.2 No.5 product type designation 38V2 ceneral technical data 38V2 size of the circuit-breaker S00 product extension auxiliary switch Yes power loss (M) for rated value of the current 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 68 V surge voltage resistance rated value 64 V shock resistance according to EIC 60068-227 25 g/ 11 ms (rectangular impulse and sine pulse) mechanical service IIf (operating cycles) 100 000 • of the main contacts typical 100 000 electrical and incoracts typical 100 000 reference code according to IEC 681346-2 Q Substance Prohibitance (Date) 100/12/009 SWHC substance name Biel - 7439-92-1 Ambient conditions - instation altitude at height above sea level maximum 2000 m ambient temperature - • during operation -20 +60 °C • during itorasport -50 +80 °C	product brand name	
product type designation 3RV2 General technical data	product designation	Circuit breaker
Ceneral technical data S00 size of the circuit-breaker S00 product extension auxilary switch Yes e 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 68V shock resistance according to IEC 60068-2-27 25 g / 11 ms (rectangular impulse and sine pulse) mechanical service life (operating cycles) 00 000 • of auxiliary contacts typical 100 000 electrical envice (operating cycles) typical 100 000 electrical envice (operating cycles) typical 100/12009 Substance Prohibitance (Date) 10/01/2009 SWHC substance name Biei -7439-92-1 Ambient conditions - installation altitude at height above sea level maximum 2000 m ambient temperature - • during transport -50 +80 "C • during transport -50 +80 "C • actual transport -50 +80 "C relative humidity during operation 0	design of the product	For transformer protection according to UL 489/CSA C22.2 No.5
size of the circuit-breaker S00 product extension auxiliary switch Yes power loss [W] for rated value of the current 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 according to IEC 60068-2-27 25 g / 11 ms (rectangular impulse and sine pulse) mechanical service II/6 (operating cycles) 100 000 • of the main contacts typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/12009 SVHS substance name Biel - 7439-92-1 Ambient conditions 100/12009 installation altitude at height above sea level maximum 2 000 m ambient temperature -50 +80 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 operating voltage 20 690 V • at AC-3 rated value 8 A operating frequency rated value 8 A operating voltage 8 A operating voltage 8 A operating voltage 8 A operating voltage 8 A operating volta	product type designation	3RV2
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power loss [W] for rated value of the current 9.25 W • 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 680 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) 6 kV • of the main contacts typical 100 000 • electrical endurance (operating cycles) typical 100 000 • electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 system contacts typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/1/2009 SVHC substance name Blei - 7439-92-1 Anbiont conditions -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C • during transport -50 +80 °C • during transport -50 +80 °C • at AC-3 rated value maximum 690 V	size of the circuit-breaker	S00
• 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 64 V shock resistance according to IEC 60068-2:27 25 g / 11 ms (rectangular impulse and sine pulse) mechanical service life (operating cycles) 100 000 • of the main contacts typical 100 000 effectical endurance (operating cycles) typical 100 000 effectical endurance (operating cycles) typical 100 000 effectical endurance (operating cycles) typical 100 000 substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Ambient temperature - • during storage -50 +60 °C • atted value 20 600 V • attack value maximum 600 V • attack value ma	product extension auxiliary switch	Yes
• at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance according to IEC 60068-227 25 g / 11 ms (rectangular impulse and sine pulse) mechanical service life (operating cycles) 0000 • of the main contacts typical 100 000 • electrical endurance (operating cycles) typical 100 000 • electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/1/2009 SVHC substance name Blei - 7439-92-1 Ambient conditions - installation altitude at height above sea level maximum 2 000 m ambient temperature - • during storage -50 +80 °C • during operation -20 +60 °C • during transport -50 +80 °C relative humidity during operation 1095 % Main circuit 3 number of poles for main current circuit 3 operating frequency rated value 20 690 V • at AC-3 at doule maximum 690 V • at AC-3 at 400 V rated value 8A	power loss [W] for rated value of the current	
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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 IIfe (operating cycles) 100 000 of the main contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 substance Prohibitance (Date) 100/1/2009 SVHC substance name Blei - 7439-92-1 Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -60 °C • during operation -20 +60 °C • during transport -50 +80 °C • during transport -50 +80 °C mumber of poles for main current circuit 3 operating voltage 20 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value 8 A operating frequency rated value 8 A operating frequency rated value 8 A operation current rated value 8 A operation current rated value 8 A	 at AC in hot operating state per pole 	3.1 W
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• 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 Blei - 7439-92-1 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage -60 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • operating frequency rated value 8 A operating frequency rated value 8 A operational current 8 A operational current 8 A operationg current 8 A • at AC-3 at 400 V rated value 8 A	shock resistance according to IEC 60068-2-27	25 g / 11 ms (rectangular impulse and sine pulse)
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reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Ambient conditions 2000 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 3 number of poles for main current circuit 3 operating voltage -60 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operational current 8 A operational current 8 A operational current 8 A operational current 8 A • at AC-3 at 400 V rated value 8 A operational current 8 A • at AC-3 at 400 V rated value 8 A • at AC-3 at 400 V rated value 8 A	 of auxiliary contacts typical 	100 000
Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during transport -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage 690 V • at AC-3 rated value maximum 690 V • operating frequency rated value 50 60 Hz operational current 8 A	electrical endurance (operating cycles) typical	100 000
SVHC substance name Blei - 7439-92-1 Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating frequency rated value 8 A operational current 8 A • at AC-3 at 400 V rated value 8 A operating power 8 A	reference code according to IEC 81346-2	Q
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage - • 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 8 A operational current 8 A operational current 8 A • at AC-3e at 400 V rated value 8 A operating power 8 A	Substance Prohibitance (Date)	10/01/2009
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relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage 20 690 V • 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 8 A • at AC-3 at 400 V rated value 8 A • at AC-3 at 400 V rated value 8 A	during storage	-50 +80 °C
Main circuit 3 number of poles for main current circuit 3 operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 8 A operational current 8 A • at AC-3 at 400 V rated value 8 A • at AC-3 e at 400 V rated value 8 A	 during transport 	-50 +80 °C
number of poles for main current circuit 3 operating voltage 20 690 V • 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 8 A operational current 8 A • at AC-3 at 400 V rated value 8 A operating power 8 A	relative humidity during operation	10 95 %
operating voltage20 690 V• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current rated value8 Aoperational current8 A• at AC-3 at 400 V rated value8 A• at AC-3e at 400 V rated value8 A• at AC-3e at 400 V rated value8 A• at AC-3e at 400 V rated value8 A	Main circuit	
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• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current rated value8 Aoperational current8 A• at AC-3 at 400 V rated value8 A	operating voltage	
• at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 8 A operational current 8 A • at AC-3 at 400 V rated value 8 A • at AC-3e at 400 V rated value 8 A • at AC-3e at 400 V rated value 8 A • at AC-3e at 400 V rated value 8 A	• rated value	20 690 V
operating frequency rated value50 60 Hzoperational current rated value8 Aoperational current8 A• at AC-3 at 400 V rated value8 A• at AC-3e at 400 V rated value8 Aoperating power8 A	• at AC-3 rated value maximum	690 V
operational current rated value 8 A operational current 8 A • at AC-3 at 400 V rated value 8 A • at AC-3e at 400 V rated value 8 A • at AC-3e at 400 V rated value 8 A • operating power 8 A	 at AC-3e rated value maximum 	690 V
operational current • at AC-3 at 400 V rated value • at AC-3e at 400 V rated value 8 A operating power	operating frequency rated value	50 60 Hz
• at AC-3 at 400 V rated value • at AC-3e at 400 V rated value 8 A 9 perating power	operational current rated value	8 A
• at AC-3e at 400 V rated value 8 A operating power	operational current	
operating power	• at AC-3 at 400 V rated value	8 A
	• at AC-3e at 400 V rated value	8 A
● at AC-3	operating power	
	• at AC-3	

— at 230 V rated value	1.5 kW			
— at 400 V rated value	3 kW			
— at 500 V rated value	4 kW			
— at 690 V rated value	5.5 kW			
• at AC-3e				
- at 230 V rated value	1.5 kW			
— at 400 V rated value	3 kW			
— at 500 V rated value	4 kW			
— at 690 V rated value	5.5 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			
	nema			
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 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 (Ics) at AC				
• 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	163 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			
- 41.000 1				
• at 690 V	gG 35 A			
	gG 35 A			
at 690 V Installation/ mounting/ dimensions	gG 35 A any			
at 690 V Installation/ mounting/ dimensions mounting position	any			
at 690 V Installation/ mounting/ dimensions mounting position fastening method	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
t 690 V 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			
t 690 V Installation/ mounting/ dimensions mounting position fastening method height width	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm			
t 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm			
t 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 144 mm 45 mm			
t to 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			
tat 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 30 mm			
t to 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			
tat 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 30 mm			
tat 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts at 400 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			
tat 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	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			
tat 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 30 mm			
the side for live parts at 400 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			
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tat 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	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			
tat 690 V Installation/ mounting/ dimensions mounting position fastening method height vidth 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 live parts at 400 V downwards 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			
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			=0				
— downwards			70 mr				
— upwards			70 mr				
— backwards			0 mm				
— at the side			30 mr	30 mm			
— forwards			0 mm				
 for live parts at 69 	90 V						
— downwards			70 mr	n			
— upwards			70 mr	n			
— backwards			0 mm				
— at the side			30 mr	n			
— forwards			0 mm				
Connections/ Terminals	5						
type of electrical conn							
 for main current of 			screw	-type terminals			
	ical connectors for main c	urrent		nd bottom			
circuit							
type of connectable co	onductor cross-sections						
 for main contacts 	3						
— solid or stra	inded		1 10 mm², max. 2x 10 mm²				
- finely strand	ded with core end processing	g	1 1	6 mm², max. 6 + 16 mm²			
 for AWG cables f 	for main contacts	-	2x (14 10)				
tightening torque				,			
• • •	with screw-type terminals		25	3 N·m			
design of screwdriver				Diameter 5 to 6 mm			
size of the screwdrive				Pozidriv size 2			
	f the connection screw		1 0210	11V 512C 2			
-			N44				
for main contacts	5		M4				
Safety related data	C 11		_	_	_	_	
proportion of dangero							
	rate according to SN 31920		50 %				
 with high demand 	d rate according to SN 3192	0	50 %				
failure rate [FIT] with I 31920	ow demand rate according	g to SN	50 FI	Г			
B10 value with high de	emand rate according to S	N 31920	5 000				
IEC 61508							
T1 value for proof test IEC 61508	t interval or service life acc	cording to	10 a				
Electrical Safety							
protection class IP on	the front according to IEC	60529	IP20				
touch protection on th	touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front			
display version for swite			Handle				
Approvals Certificates							
General Product App	roval						
CE	UK CA	()		Confirmation	ሡ	<u>KC</u>	
EG-Konf.	CH	ccc			UL		
General Product Ap-	Test Certificates			Marine / Shipping		other	
proval							
EHC	Special Test Certific- ate	<u>Type Test Cer</u> ates/Test Rep		BUREAU VERITAS	Llovd's Register uts	<u>Miscellaneous</u>	
other							



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=3RV2811-1HD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-1HD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1HD10

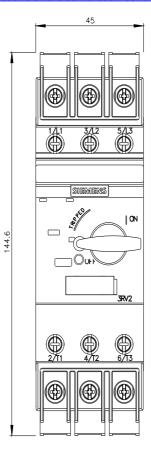
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

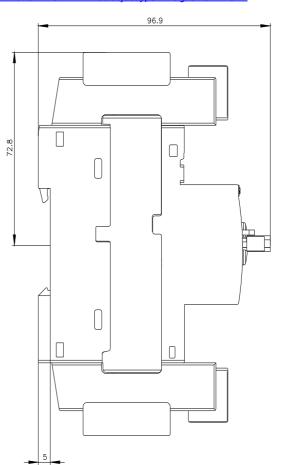
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-1HD10&lang=en

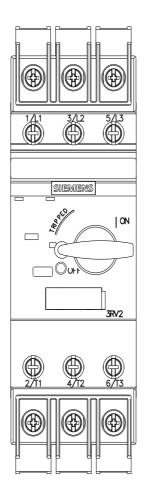
Characteristic: Tripping characteristics, I²t, Let-through current

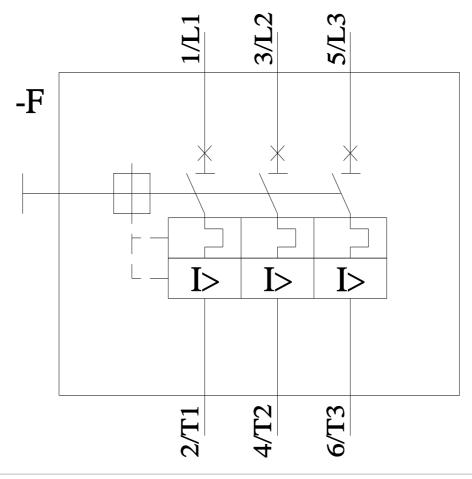
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1HD10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1HD10&objecttype=14&gridview=view1









8/29/2023 🖸

12/15/2023