SIEMENS

Data sheet

3RV2811-0CD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 0.25 A N-release 5.2 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 	5.5 W
 at AC in hot operating state per pole 	1.8 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	25g / 11 ms
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (switching 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	0.25 A
operational current	
 at AC-3 at 400 V rated value 	0.25 A
• at AC-3e at 400 V rated value	0.25 A
operating power	

• at AC-3	0.1441
— at 230 V rated value	0 kW
— at 400 V rated value	0.1 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0.1 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
 ground fault detection 	No
 phase failure detection 	No
design of the overload release	thermal
breaking capacity maximum short-circuit current (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
breaking capacity operating short-circuit current (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	5.2 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	indgrioto
mounting position	201/
fastening method	any screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
height	144 mm
width	45 mm
depth	97 mm
required spacing	
 for grounded parts at 400 V — downwards 	20
	30 mm 30 mm
— upwards	
— at the side	30 mm
 for live parts at 400 V downwards 	30 mm
	30 mm
— upwards — at the side	30 mm 30 mm
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 for grounded parts at 500 V 	30 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 	
— 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	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
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
at 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
for main contacts	M4
-	M4
for main contacts Safety related data B10 value	M4 5 000
for main contacts Safety related data B10 value with high demand rate according to SN 31920	
for main contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures	5 000
for main contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920	
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Marine / Shipping other

Confirmation



Vibration and Shock

Railway

 Further information

 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=3RV2811-0CD10

 Cax online generator

 http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-0CD10

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

 http://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0CD10

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

 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-0CD10&lang=en

 Characteristic: Tripping characteristics, I²t, Let-through current

 https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0CD10/char

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

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-0CD10&objecttype=14&gridview=view1

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