SIEMENS

Data sheet 3RV2711-1FD10



Circuit breaker size S00 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 5 A N release 65 A screw terminal Standard switching capacity

product brand name product designation design of the product product type designation

size of the circuit-breaker

General technical data

SIRIUS
Circuit breaker
For system protection according to LII, 489/CSA C2

For system protection according to UL 489/CSA C22.2 No. 5 3RV2

Size of the chicult-breaker	300
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	25g / 11 ms
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	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

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— 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
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
•	No
phase failure detection design of the overload release.	thermal
design of the overload release	tiiciiial
maximum short-circuit current breaking capacity (Icu)	100 kA
at AC at 400 V rated value at AC at 400 V rated value	100 kA
at AC at 500 V rated value	100 kA
at AC at 500 V rated value	100 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 (lcs) at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	100 kA
at 500 V rated value at 600 V rated value	100 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	65 A
Short-circuit protection	
	V
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	gL/gG 32 A
• at 500 V	
• at 690 V	gL/gG 32 A
	gL/gG 25 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
haimhé	60715 144 mm
height	
width	45 mm
depth	97 mm
required spacing	
• for grounded parts at 400 V	20
— downwards	30 mm
	00
— upwards	30 mm
— at the side	30 mm 30 mm
— at the side• for live parts at 400 V	30 mm
— at the sidefor live parts at 400 V— downwards	30 mm
— at the side• for live parts at 400 V— downwards— upwards	30 mm 30 mm 30 mm
 — at the side ● for live parts at 400 V — downwards — upwards — at the side 	30 mm
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V 	30 mm 30 mm 30 mm 30 mm
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards 	30 mm 30 mm 30 mm 30 mm
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V 	30 mm 30 mm 30 mm 30 mm
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards upwards at the side 	30 mm 30 mm 30 mm 30 mm
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards upwards 	30 mm 30 mm 30 mm 30 mm 30 mm
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards upwards at the side 	30 mm 30 mm 30 mm 30 mm 30 mm

- at the side 30 mm • for grounded parts at 690 V 70 mm - downwards upwards 70 mm 0 mm - backwards - at the side 30 mm - forwards 0 mm • for live parts at 690 V - downwards 70 mm 70 mm - upwards - 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 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 Pozidriv size 2 size of the screwdriver tip 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] 50 FIT • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to 10 y IEC 61508 protection class IP on the front according to IEC IP20 60529 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 **General Product Approval**



Confirmation





<u>KC</u>



Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping other 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=3RV2711-1FD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2711-1FD10

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RV2711-1FD10

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

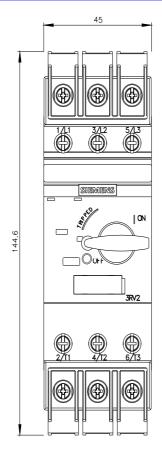
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2711-1FD10&lang=en

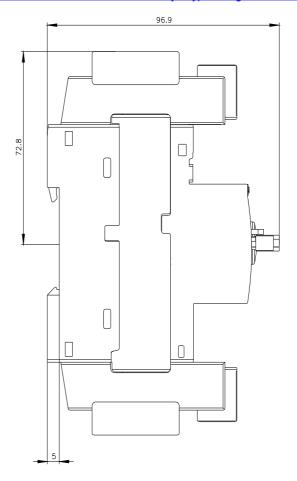
Characteristic: Tripping characteristics, I2t, Let-through current

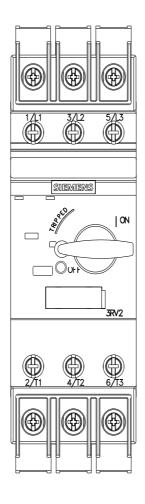
https://support.industry.siemens.com/cs/ww/en/ps/3RV2711-1FD10/char

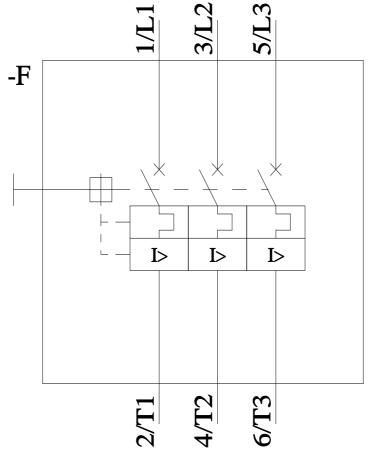
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2711-1FD10&objecttype=14&gridview=view1









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