SIEMENS

Data sheet

3RV2711-0HD10

Circuit breaker size S00 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 0.8 A N-release 10 A screw terminal Standard switching capacity



SIRIUS
Circuit breaker
For system protection according to UL 489/CSA C22.2 No. 5
3RV2
S00

Size of the circuit-breaker	S00
Product extension	
Auxiliary switch	Yes
Power loss [W] total typical	5 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between main and auxiliary circuit 	400 V
 in networks with grounded star point between main and auxiliary circuit 	400 V
Protection class IP	
• on the front	IP20

• of the terminal	IP00
of the terminal Shock resistance	
acc. to IEC 60068-2-27	25g / 11 ms
Mechanical service life (switching cycles)	
	100 000
• of the main contacts typical	
of auxiliary contacts typical	100 000
Electrical endurance (switching cycles)	
• typical	100 000
Certificate of suitability ATEX	No
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Reference code acc. to DIN EN 81346-2	Q
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
Temperature compensation	-20 +60 °C
Relative humidity during operation	10 95 %
Main circuit	
Number of poles for main current circuit	3
Operating voltage	-
rated value	690 V
 at AC-3 rated value maximum 	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	0.8 A
Operating current	-
• at AC-3	
— at 400 V rated value	0.8 A
Operating power	-
• at AC-3	
— at 230 V rated value	120 W
— at 400 V rated value	180 W
— at 500 V rated value	250 W
— at 690 V rated value	370 W
Operating frequency	
at AC-3 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
Operational 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	100 kA
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	100 kA
at 480 AC Y/277 V acc. to UL 489 rated value	65 000 A
Breaking capacity short-circuit current (Icn)	
• at 1 current path at DC at 150 V rated value	10 kA
• with 2 current paths in series at DC at 300 V	10 kA
rated value	
 with 3 current paths in series at DC at 450 V 	10 kA
rated value	
Response value current	
 of instantaneous short-circuit trip unit 	10 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 690 V	gL/gG 6 A
nstallation/ mounting/ dimensions	
Mounting position	any
Mounting type	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	
 with side-by-side mounting 	

— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
 for grounded parts 	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	30 mm
— downwards	50 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	30 mm
Connections/Terminals	
Product function	
 removable terminal for auxiliary and control 	No
circuit	
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	
— single or multi-stranded	1 10 mm², max. 2x 10 mm²
 finely stranded with core end processing 	1 16 mm², max. 6 + 16 mm²
 at AWG conductors 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 2
Design of the thread of the connection screw	
• for main contacts	M4
Safety related data	
B10 value	
• with high demand rate acc. to SN 31920	5 000
Proportion of dangerous failures	
• with low demand rate acc. to SN 31920	50 %

 with high dema 	and rate acc. to SN 3	1920	50 %		
Failure rate [FIT]					
• with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508		50 FIT 10 y			
					Display version
• for switching status		Handle			
ertificates/approva	ls				
General Product	Approval				Declaration of Conformity
(m)	(C)		<u>KC</u>	гпг	(6
	CSA			EHC	EG-Konf.
ccc Test Certificates	CSA	Marine / SI	hipping	LUL	EG-Konf.
	Special Test Certificate	VUL Marine / SI	hipping Lloyd's Register LRS	EFIL <i>PRS</i>	EG-Konf.
Test Certificates	Special Test Certi-	BUREAU	Lloyd's Register		

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2711-0HD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2711-0HD10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2711-0HD10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2711-0HD10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2711-0HD10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2711-0HD10&objecttype=14&gridview=view1







