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

product brand name	SIRIUS	
product designation	Circuit breaker	
design of the product	For system 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	0.8 A	
operational current		
 at AC-3 at 400 V rated value 	0.8 A	
• at AC-3e at 400 V rated value	0.8 A	
operating power		

• at AC-3			
— at 230 V rated value	0.1 kW		
— at 400 V rated value	0.2 kW		
— at 500 V rated value	0.3 kW		
— at 690 V rated value	0.4 kW		
• at AC-3e			
— at 230 V rated value	0.1 kW		
— at 400 V rated value	0.2 kW		
— at 500 V rated value	0.3 kW		
— at 690 V rated value	0.4 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	No		
ground fault detection	No No		
phase failure detection	No		
design of the overload release	thermal		
breaking capacity maximum short-circuit current (Icu)	400.14		
 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 (lcs) 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	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	magnetto		
protection of the main circuit			
• at 690 V	gL/gG 6 A		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail		
iastelling inethod	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		
— upwards — at the side	30 mm		
	OU THILL		
• for live parts at 400 V	20 mm		
— downwards	30 mm		
— upwards	30 mm		
— at the side	30 mm		
• for grounded parts at 500 V			
— downwards	30 mm		

— upwards	30 mm			
— at the side	30 mm			
	30 Hilli			
• for live parts at 500 V	20			
— 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 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			
 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			
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 %			
tallure rate if i i				
failure rate [FIT] • with low demand rate according to SN 31920	50 FIT			
with low demand rate according to SN 31920	50 FIT			
	50 FIT 10 y			
with low demand rate according to SN 31920 T1 value for proof test interval or service life according to				
with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC	10 y			
with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	10 y			
with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	10 y IP20 finger-safe, for vertical contact from the front			
with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status	10 y IP20 finger-safe, for vertical contact from the front			



Confirmation





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Declaration of Conformity	l'est Certificates	Marine / Shipping	
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Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

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=3RV2711-0HD10

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

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

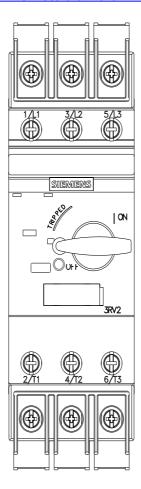
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2711-0HD10&lang=en

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



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