## SIEMENS

## Data sheet

## 3RV2711-1BD10



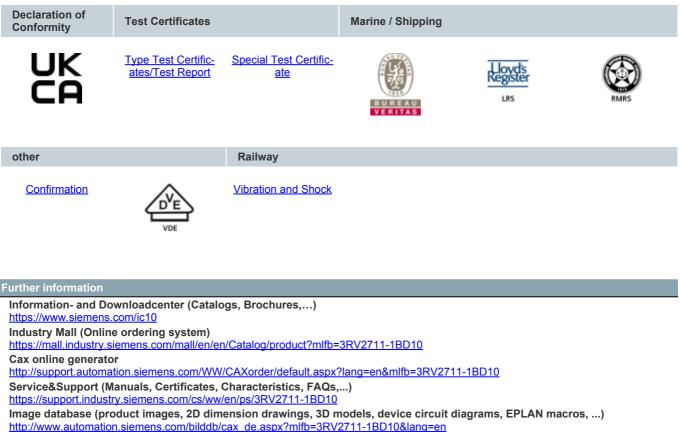
Circuit breaker size S00 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 2 A N-release 26 A screw terminal Standard switching capacity

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			
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	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 (switching cycles)			
<ul> <li>of the main contacts typical</li> </ul>	100 000		
<ul> <li>of auxiliary contacts typical</li> </ul>	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			
<ul> <li>during operation</li> </ul>	-20 +60 °C		
<ul> <li>during storage</li> </ul>	-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			
<ul> <li>rated value</li> </ul>	20 690 V		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V		
operating frequency rated value	50 60 Hz		
operational current rated value	2 A		
operational current			
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	2 A		
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	2 A		
operating power			

• at AC-3	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.8 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.8 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 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)	
<ul> <li>at AC at 240 V rated value</li> </ul>	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	10 kA
at 480 AC Y/277 V according to UL 489 rated value	65 kA
breaking capacity operating short-circuit current (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
• at 500 V rated value	100 kA
at 690 V rated value	10 kA
response value current of instantaneous short-circuit trip unit	26 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	gL/gG 25 A
● at 500 V	gL/gG 25 A
• at 690 V	gL/gG 20 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	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	
<ul> <li>for grounded parts at 400 V</li> </ul>	00
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm
<ul> <li>for live parts at 400 V</li> </ul>	00
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm

<ul> <li>for grounded parts at 500 V</li> </ul>		
— downwards	30 mm	
— upwards	30 mm	
— at the side	30 mm	
<ul> <li>for live parts at 500 V</li> </ul>		
— downwards	30 mm	
— upwards	30 mm	
— at the side	30 mm	
<ul> <li>for grounded parts at 690 V</li> </ul>		
— downwards	70 mm	
— upwards	70 mm	
— backwards	0 mm	
— at the side	30 mm	
— forwards	0 mm	
for live parts at 690 V	70	
— downwards	70 mm	
— upwards	70 mm	
— backwards — at the side	0 mm	
	30 mm	
— forwards	0 mm	
onnections/ 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	0.5 0.01	
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	
	1014	
afety related data		_
B10 value	5 000	
with high demand rate according to SN 31920	5 000	
proportion of dangerous failures	50.0/	
with low demand rate according to SN 31920	50 %	
with high demand rate according to SN 31920	50 %	
failure rate [FIT]		
with low demand rate according to SN 31920		
T1 value for proof test interval or service life according to IEC 61508	10 y	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Handle	
ertificates/ approvals		
		Declaration of

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Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2711-1BD10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2711-1BD10&objecttype=14&gridview=view1

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