## SIEMENS

## Data sheet

## 3RV2411-0CA20



Circuit breaker size S00 for transformer protection A-release 0.18...0.25 A N-release 5.2 A Spring-type terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For transformer protection
product type designation	3RV2
General technical data	_
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	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)	
<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
adjustable current response value current of the current-dependent overload release	0.18 0.25 A
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	0.25 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.25 A

• at AC-3e at 400 V rated value	0.25 A
operating power	
• at AC-3	
— 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	
<ul> <li>ground fault detection</li> </ul>	No
phase failure detection	Yes
trip class	CLASS 10
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
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA
at AC at 690 V rated value	100 kA
breaking capacity operating short-circuit current (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	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
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.25 A
• at 600 V rated value	0.25 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
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	106 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm

— at the side		9 mm			
<ul> <li>for grounded parts at 500 V</li> </ul>					
— downwards		30 mm			
— upwards		30 mm			
— at the side		9 mm			
<ul> <li>for live parts at 500 V</li> </ul>					
— downwards		30 mm			
— upwards		30 mm			
— at the side		9 mm			
<ul> <li>for grounded parts at 690 V</li> </ul>					
— downwards		50 mm			
— upwards		50 mm			
— backwards		0 mm			
— at the side		30 mm			
— forwards		0 mm			
<ul> <li>for live parts at 690 V</li> </ul>					
— downwards		50 mm			
— upwards		50 mm			
— backwards		0 mm			
— at the side		30 mm			
— forwards		0 mm			
Connections/ Terminals		0 mm			
type of electrical connection					
for main current circuit		spring-loaded terminals			
arrangement of electrical connectors for r	main current	Top and bottom			
circuit					
type of connectable conductor cross-sect	tions				
<ul> <li>for main contacts</li> </ul>					
— solid or stranded		2x (0,5 4 mm²)			
— finely stranded with core end processing		2x (0.5 2.5 mm²)			
— finely stranded without core end processing		2x (0.5 2.5 mm²)			
at AWG cables for main contacts		2x (20 12)			
design of screwdriver shaft		Diameter 3 mm			
size of the screwdriver tip		3,0 x 0,5 mm			
Safety related data					
B10 value					
with high demand rate according to SN	1 31920	5 000			
proportion of dangerous failures	101020	5 000			
with low demand rate according to SN	21020	50 %			
•		50 % 50 %			
with high demand rate according to SN	1 3 1920	50 %			
failure rate [FIT]	21020				
with low demand rate according to SN T1 value for proof test interval or service life		50 FIT 10 y			
IEC 61508 protection class IP on the front according	to IEC	IP20			
60529		former of former in the	and fore we do not		
	DIEC 60529	finger-safe, for vertical conta	act from the front		
CUSTIAN VALSION IOF SWITCHING STATUS		Handle			
Certificates/ approvals					
Certificates/ approvals		ጫ	KC	cor	
Certificates/ approvals General Product Approval		<b>U</b> U	<u>KC</u>	EAC	
Certificates/ approvals General Product Approval	(CCC	<b>U</b> U.	<u>KC</u>	EAC	
Certificates/ approvals General Product Approval	œ	UL	KC	EAC	
Certificates/ approvals General Product Approval	CCC Test Certifica	UL UL	KC Marine / Shipping	EAC	

CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	B U R E A U VERITAS			
Marine / Shipping					other			
	Lloyd's Register uis	PRS	RINA	KMRS	<u>Confirmation</u>			
other	Railway							
UDE VDE	<u>Confirmation</u>	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=3RV2411-0CA20 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-0CA20 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0CA20 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-0CA20⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current								

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0CA20/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-0CA20&objecttype=14&gridview=view1

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