## SIEMENS

## Data sheet

## 3RV2411-1HA10



Circuit breaker size S00 for transformer protection A-release 5.5...8 A N-release 163 A screw 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>	9.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.1 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	5.5 8 A
operating voltage	
rated value	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	8 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	8 A

<ul> <li>at AC-3e at 400 V rated value</li> </ul>	8 A
operating power	
• at AC-3	
- at 230 V rated value	1.5 kW
— at 200 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	0.0 KVV
	4 5 100
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 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>	42 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	6 kA
breaking capacity operating short-circuit current (Ics) at AC	
at 240 V rated value	100 kA
at 240 V rated value	100 kA
at 500 V rated value	42 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip	163 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	8 A
at 600 V rated value	8 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	5 hp
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 50 A
• at 500 V	gL/gG 40 A
• at 690 V	gL/gG 35 A
Installation/ mounting/ dimensions	

mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail			
<b>J</b>	according to DIN EN 60715			
yht 97 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			
<ul> <li>for live parts at 400 V</li> </ul>				
— 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	30 mm 9 mm			
• for live parts at 500 V				
<ul> <li>Hor live parts at 500 V</li> <li>— downwards</li> </ul>	30 mm			
	30 mm			
— upwards				
— at the side	9 mm			
<ul> <li>for grounded parts at 690 V</li> </ul>	50 mm			
— 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	-			
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	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	2x (0,75 2,5 mm²), 2x 4 mm²			
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
at AWG cables for main contacts	2x (18 14), 2x 12			
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 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	M3			
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 %			
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>	50 % 50 %			
• with high demand rate according to SN 31920				
• with high demand rate according to SN 31920 failure rate [FIT]				
• with high demand rate according to SN 31920	50 %			

protection class IF 60529	on the front according	to IEC	P20			
touch protection on the front according to IEC 60529		IEC 60529 1	finger-safe, for vertical contact from the front			
display version for switching status			Handle			
ertificates/ approv	als					
General Product A	Approval				Declaration of Conformity	
SP M		<u>Confirmation</u>		EHC	CE EG-Konf.	
Declaration of Conformity	Test Certificates		Marine / Shipping			
	Special Test Certific- ate	Type Test Certifi ates/Test Repo	C- t ABS	BUREAU VERITAS		
Marine / Shipping				other		
Lloyd's Register urs	PRS	RINA	RMRS	Confirmation	VDE	
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=3RV2411-1HA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1HA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1HA10

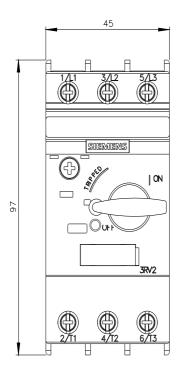
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2411-1HA10&lang=en

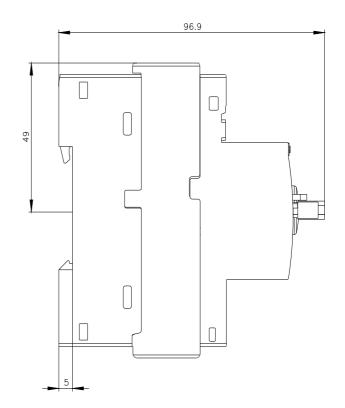
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1HA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1HA10&objecttype=14&gridview=view1





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