## **SIEMENS**

Data sheet 3RV2411-0DA10



Circuit breaker size S00 for transformer protection A-release 0.22...0.32 A N-release 6.5 A screw terminal Standard switching capacity



design of the product For tra product type designation 3RV2 General technical data	breaker Insformer protection	
product type designation 3RV2 General technical data	insformer protection	
General technical data		
	General technical data	
size of the circuit-breaker S00		
size of contactor can be combined company-specific S00, S	50	
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 / 1	11 ms	
mechanical service life (operating cycles)		
• of the main contacts typical 100 00	00	
• of auxiliary contacts typical	00	
electrical endurance (operating cycles) typical 100 00	00	
reference code according to IEC 81346-2 Q		
Substance Prohibitance (Date) 10/01/2	2009	
SVHC substance name Lead -	7439-92-1	
Ambient conditions		
installation altitude at height above sea level maximum 2 000 i	m	
ambient temperature		
• during operation -20	+60 °C	
• during storage -50 ·	+80 °C	
• during transport -50	+80 °C	
relative humidity during operation 10 9	95 %	
Main circuit		
number of poles for main current circuit 3		
adjustable current response value current of the current- dependent overload release	. 0.32 A	
operating voltage		
• rated value 20 6	590 V	
• at AC-3 rated value maximum 690 V		
• at AC-3e rated value maximum 690 V		
operating frequency rated value 50 6	60 Hz	

operational current rated value	0.22 A
operational current	0.32 A
operational current  • at AC-3 at 400 V rated value	0.32 A
at AC-3 at 400 V rated value      at AC-3e at 400 V rated value	0.32 A
	0.32 A
operating power  • at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0.1 kW
	0.1 kW
— at 500 V rated value — at 690 V rated value	0.1 kW
• at AC-3e	U. I KVV
— 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
	U. I KVV
operating frequency  • at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	10 1/11
number of NC contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	Ma
ground fault detection	No Voc
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	100 kA
<ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> </ul>	100 kA
at AC at 400 V rated value      at AC at 500 V rated value	100 kA 100 kA
	100 KA
at AC at 690 V rated value	100 KA
operating short-circuit current breaking capacity (Ics) at AC	100 kA
<ul><li>at 240 V rated value</li><li>at 400 V rated value</li></ul>	100 KA
at 500 V rated value     at 500 V rated value	100 KA
at 690 V rated value     at 690 V rated value	100 KA
response value current of instantaneous short-circuit trip unit	6.5 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	0.22 A
at 480 V rated value     At 600 V rated value	0.32 A
at 600 V rated value  Short circuit protection	0.32 A
Short-circuit protection	V
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 DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth required spacing	97 mm
required spacing	0 mm
with side-by-side mounting at the side     for grounded parts at 400 V.	0 mm
• for grounded parts at 400 V	20 mm
— 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
• for grounded parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
● for live parts at 500 V	
— 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
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 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	2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for main contacts</li> </ul>	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	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
with high demand rate according to SN 31920	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN	50 FIT
31920	
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
<ul> <li>for proof test interval or service life according to IEC</li> </ul>	
61508	10 a
61508 Electrical Safety	10 a
61508 Electrical Safety protection class IP on the front according to IEC 60529	10 a

touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front

Display

display version for switching status

Approvals Certificates

Approvais Certificates

**General Product Approval** 





Confirmation





<u>KC</u>

General Product Approval

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other







**Miscellaneous** 

Confirmation



Railway

Environment

Special Test Certificate Confirmation



Siemens EcoTech



Environmental Confirmations

## Further informatior

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RV2411-0DA10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2411-0DA10}\\$ 

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0DA10}$ 

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

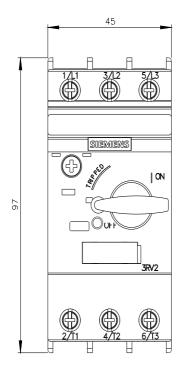
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2411-0DA10&lang=en

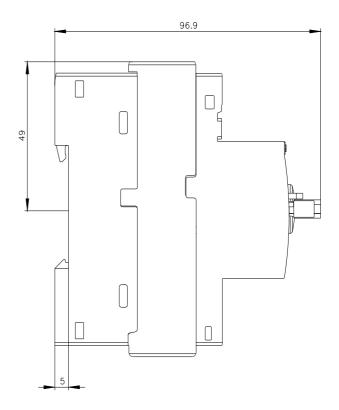
Characteristic: Tripping characteristics, I2t, Let-through current

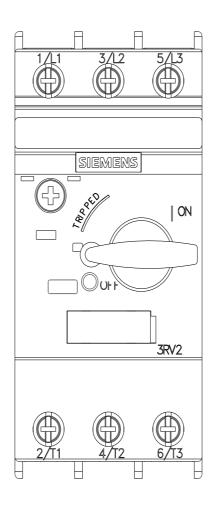
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0DA10/char

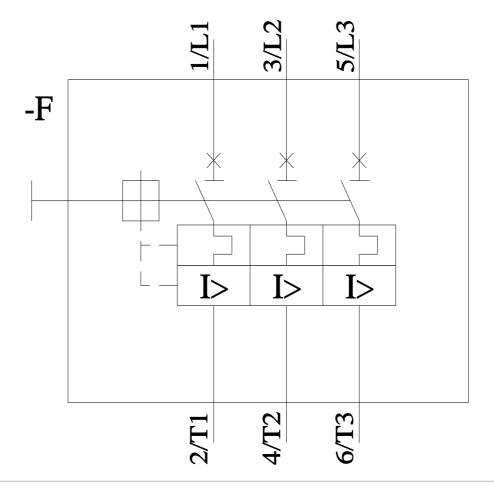
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-0DA10&objecttype=14&gridview=view1









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