## SIEMENS

## Data sheet

## 3RV2411-0GA10

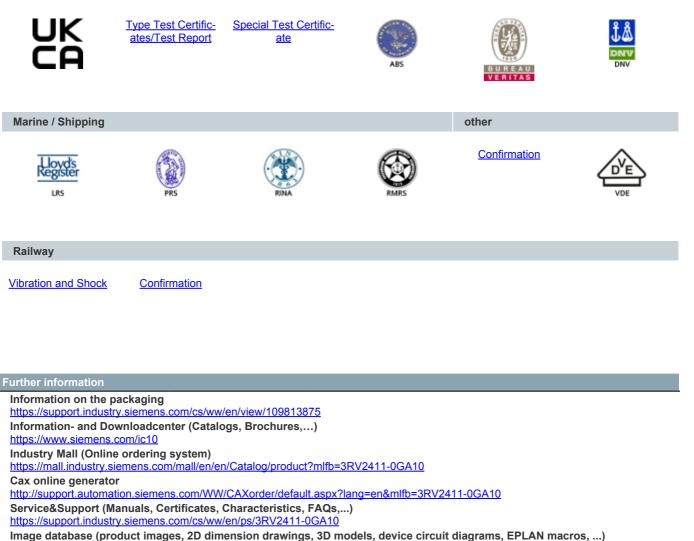


Circuit breaker size S00 for transformer protection A-release 0.45...0.63 A N-release 13 A screw terminal Standard switching capacity

4/12 6/13	
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 (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating 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
<ul> <li>during transport</li> </ul>	-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	0.45 0.63 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	0.63 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.63 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	0.63 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	0.2 kW
— at 690 V rated value	0.3 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	0.2 kW
— at 690 V rated value	0.3 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
	10 1/11
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
maximum short-circuit current breaking capacity (Icu)	
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
operating short-circuit current breaking capacity (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
<ul> <li>at 500 V rated value</li> </ul>	100 kA
<ul> <li>at 690 V rated value</li> </ul>	100 kA
response value current of instantaneous short-circuit trip	13 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	0.63 A
<ul> <li>at 600 V rated value</li> </ul>	0.63 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 690 V	gL/gG 6 A
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	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	
<ul> <li>Hor grounded parts at 400 V</li> <li>— downwards</li> </ul>	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

Declaration of Test Certificates	Marine / Shipping	
	KC ERC	CE EG-Konf.
General Product Approval		Declaration of Conformity
Certificates/ approvals		
touch protection on the front according to IEC 60529 display version for switching status	finger-safe, for vertical contact from the front Handle	
protection class IP on the front according to IEC 60529	IP20	
IEC 61508	10 a	
<ul> <li>with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to</li> </ul>		
failure rate [FIT]  • with low demand rate according to SN 31920	50 FIT	
with high demand rate according to SN 31920     failure rate [EIT]	50 %	
with low demand rate according to SN 31920     with high demand rate according to SN 31920	50 %	
proportion of dangerous failures	50.9/	
with high demand rate according to SN 31920	5 000	
B10 value		
Safety related data		
for main contacts	M3	
design of the thread of the connection screw	M2	
size of the screwdriver tip	Pozidriv size 2	
design of screwdriver shaft	Diameter 5 to 6 mm	
for main contacts with screw-type terminals	0.8 1.2 N·m	
tightening torque	0.9 1.2 Nm	
at AWG cables for main contacts	2x (18 14), 2x 12	
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )	
— solid or stranded	$2x (0.75 \dots 2.5 \text{ mm}^2), 2x 4 \text{ mm}^2$	
for main contacts		
type of connectable conductor cross-sections		
circuit		
arrangement of electrical connectors for main current	Top and bottom	
for main current circuit	screw-type terminals	
type of electrical connection		
Connections/ Terminals		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
• for live parts at 690 V		
— forwards	0 mm	
— at the side	30 mm	
— upwards — backwards	0 mm	
— downwards — upwards	50 mm	
<ul> <li>for grounded parts at 690 V</li> <li>— downwards</li> </ul>	50 mm	
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
• for live parts at 500 V		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
<ul> <li>for grounded parts at 500 V</li> </ul>		



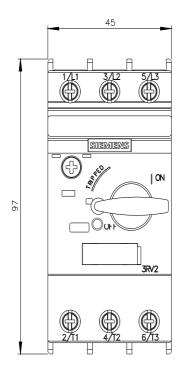
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2411-0GA10&lang=en

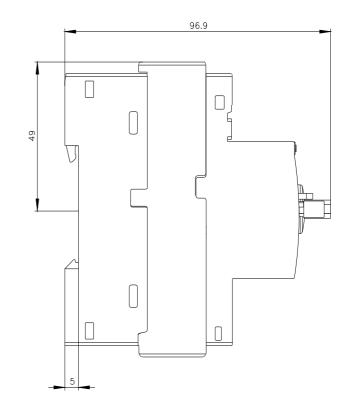
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

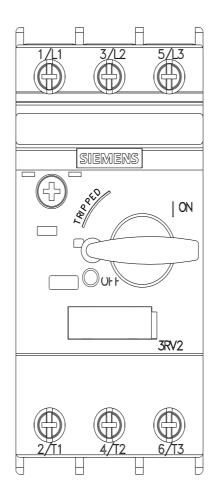
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0GA10/char

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

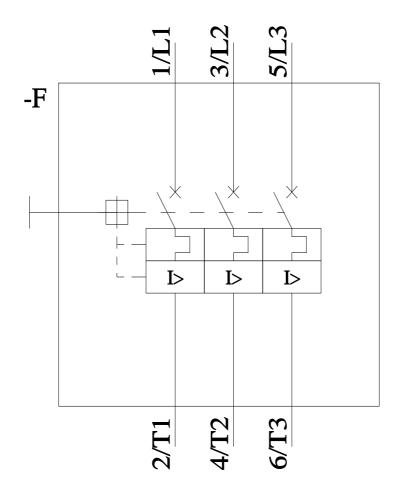
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