## **SIEMENS**

Data sheet 3RV2411-0HA10



Circuit breaker size S00 for transformer protection A-release 0.55...0.8 A N-release 16 A screw terminal Standard switching capacity



product designation  design of the product  product type designation  General technical data  size of the circuit-breaker  size of contactor can be combined company-specific  Circuit break  For transform  3RV2  S00  S00  S00  S00, S0	er ner protection
design of the product For transform product type designation 3RV2  General technical data size of the circuit-breaker S00	ner protection
General technical data size of the circuit-breaker  S00	
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	
• at AC in hot operating state 7.25 W	
• at AC in hot operating state per pole 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 (operating cycles)	
• of the main contacts typical 100 000	
• of auxiliary contacts typical 100 000	
electrical endurance (operating cycles) typical 100 000	
reference code according to IEC 81346-2	
Substance Prohibitance (Date) 10/01/2009	
SVHC substance name Lead - 7439-	92-1
Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	
ambient temperature	
• during operation -20 +60 °C	;
• during storage -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	
operating voltage	
• rated value 20 690 V	
• at AC-3 rated value maximum 690 V	
<ul> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>690 V</li> </ul>	

operational current rated value	0.8 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.8 A
at AC-3e at 400 V rated value	0.8 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	0.3 kW
— at 690 V rated value	0.4 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	0.3 kW
— at 690 V rated value	0.4 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	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	Ulcimal
• at AC at 240 V rated value	100 kA
at AC at 240 V rated value     at AC at 400 V rated value	100 KA
at AC at 400 V rated value     at AC at 500 V rated value	100 KA
at AC at 690 V rated value      at AC at 690 V rated value	100 KA
	100 KA
operating short-circuit current breaking capacity (Ics) at AC  • at 240 V rated value	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	16 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.8 A
at 600 V rated value	0.8 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	
design of the fuse link for IT network for short-circuit protection of the main circuit	magnetic
at 690 V	magnetic
	gL/gG 6 A
Installation/ mounting/ dimensions	gL/gG 6 A
Installation/ mounting/ dimensions mounting position	gL/gG 6 A
Installation/ mounting/ dimensions mounting position fastening method	gL/gG 6 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
Installation/ mounting/ dimensions mounting position fastening method height	gL/gG 6 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm
Installation/ mounting/ dimensions mounting position fastening method height width	gL/gG 6 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  97 mm  45 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	gL/gG 6 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	gL/gG 6 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm
Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • with side-by-side mounting at the side	gL/gG 6 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  97 mm  45 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	gL/gG 6 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm
Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • with side-by-side mounting at the side	gL/gG 6 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm
Installation/ mounting/ dimensions  mounting position  fastening method height width depth  required spacing  • with side-by-side mounting at the side • for grounded parts at 400 V	gL/gG 6 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  97 mm  45 mm  97 mm  0 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
• for grounded parts at 690 V	
— 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	Top and bottom
circuit	
type of connectable conductor cross-sections	
for main contacts	
<ul><li>for main contacts</li><li>— solid or stranded</li></ul>	2x (0,75 2,5 mm²), 2x 4 mm²
<ul><li>— solid or stranded</li><li>— finely stranded with core end processing</li></ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for main contacts</li> </ul>	
<ul><li>— solid or stranded</li><li>— finely stranded with core end processing</li></ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12
solid or stranded finely stranded with core end processing  • for AWG cables for main contacts  tightening torque  • for main contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 0.8 1.2 N·m
solid or stranded finely stranded with core end processing  • for AWG cables for main contacts  tightening torque  • for main contacts with screw-type terminals  design of screwdriver shaft	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm
solid or stranded finely stranded with core end processing  • for AWG cables for main contacts  tightening torque  • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 0.8 1.2 N·m
- solid or stranded - finely stranded with core end processing  • for AWG cables for main contacts  tightening torque  • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip  design of the thread of the connection screw	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2
- solid or stranded - finely stranded with core end processing  • for AWG cables for main contacts  tightening torque  • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip  design of the thread of the connection screw  • for main contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm
solid or stranded finely stranded with core end processing  • for AWG cables for main contacts  tightening torque  • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip  design of the thread of the connection screw  • for main contacts  Safety related data	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3
- solid or stranded - finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw • for main contacts  Safety related data product function suitable for safety function	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2
- solid or stranded - finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw • for main contacts  Safety related data  product function suitable for safety function suitability for use	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes
- solid or stranded - finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip  design of the thread of the connection screw • for main contacts  Safety related data  product function suitable for safety function  suitability for use • safety-related switching on	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes
- solid or stranded - finely stranded with core end processing  • for AWG cables for main contacts  tightening torque  • for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw  • for main contacts  Safety related data  product function suitable for safety function  suitability for use  • safety-related switching on  • safety-related switching OFF	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No  Yes
- solid or stranded - finely stranded with core end processing  • for AWG cables for main contacts  tightening torque  • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip  design of the thread of the connection screw  • for main contacts  Safety related data  product function suitable for safety function  suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No  Yes  10 a
- solid or stranded - finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw • for main contacts  Safety related data  product function suitable for safety function  suitability for use • safety-related switching on • safety-related switching OFF  service life maximum  test wear-related service life necessary	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No  Yes
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No  Yes  10 a  Yes
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes  40 % 50 %
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes  40 % 50 % 5 000
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes  40 % 50 %
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes  40 % 50 % 5 000
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes  40 % 50 % 5 000
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes  40 % 50 % 5 000 50 FIT
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes  40 % 50 % 5 000 50 FIT
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes  40 % 50 % 5 000 50 FIT
— solid or stranded — finely stranded with core end processing  • for AWG cables for main contacts  tightening torque  • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip  design of the thread of the connection screw  • for main contacts  Safety related data  product function suitable for safety function  suitability for use  • safety-related switching on • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12  0.8 1.2 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M3  Yes  No Yes  10 a Yes  40 % 50 % 5 000 50 FIT

Electrical Safety	
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	
display version for switching status	Handle
Approvals Certificates	

## **General Product Approval**







Confirmation





**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping

other

Railway





Miscellaneous

Confirmation



Special Test Certificate

Railway

**Environment** 

Confirmation



Siemens EcoTech



Environmental Confirmations

## **Further information**

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=3RV2411-0HA10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2411-0HA10}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0HA10

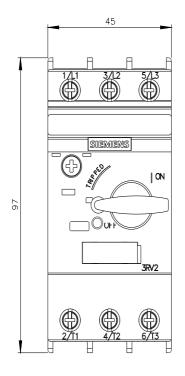
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

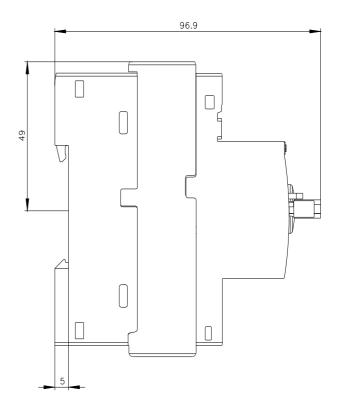
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2411-0HA10&lang=er

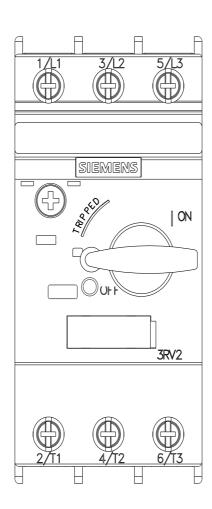
Characteristic: Tripping characteristics, I²t, Let-through current

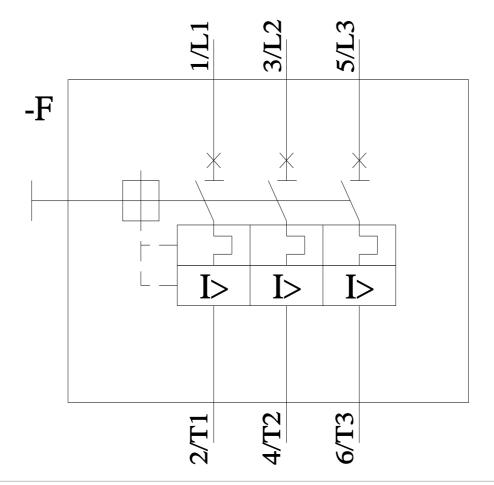
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0HA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-0HA10&objecttype=14&gridview=view1









last modified: 4/12/2024 🖸