SIEMENS

Data sheet 3RV2411-1CA15



Circuit breaker size S00 for transformer protection A-release 1.8...2.5 A N release 52 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

SIRIUS product brand name product designation Circuit breaker design of the product For transformer protection product type designation 3RV2 General technical data S00 size of the circuit-breaker 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 24 W • at AC in hot operating state per pole 690 V insulation voltage with degree of pollution 3 at AC rated 6 kV surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 100 000 • of the main contacts typical · of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 C **Substance Prohibitance (Date)** 10/01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C • during operation -50 ... +80 °C • during storage · during transport -50 ... +80 °C relative humidity during operation 10 ... 95 % Main circuit number of poles for main current circuit adjustable current response value current of the 1.8 ... 2.5 A current-dependent overload release operating voltage rated value 20 ... 690 V 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum operating frequency rated value 50 ... 60 Hz operational current rated value 2.5 A operational current • at AC-3 at 400 V rated value 2.5 A at AC-3e at 400 V rated value 2.5 A operating power

• at AC-3	
	0.4 kW
— at 230 V rated value	
— at 400 V rated value	0.8 kW 1.1 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value ● at AC-3e	1.5 KVV
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.4 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.1 kW
operating frequency	1.5 KVV
at AC-3 maximum	15 1/h
at AC-3 maximum at AC-3e maximum	15 1/h
	10 1/11
Auxiliary circuit	transverse
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	U
operational current of auxiliary contacts at AC-15	2 A
• at 24 V	
• at 120 V	0.5 A
• at 125 V	0.5 A
 at 230 V operational current of auxiliary contacts at DC-13 	0.5 A
	4 Λ
at 24 V at 60 V	1 A 0.15 A
	0:15 A
Protective and monitoring functions	
product function	No
 ground fault detection phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (lcu)	tiletitiai
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 500 V rated value	100 kA
at AC at 690 V rated value	10 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 	10 kA
response value current of instantaneous short-circuit trip	52 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	2.5 A
at 480 V rated value at 600 V rated value	2.5 A
	2.0 N
yielded mechanical performance [hp] • for single-phase AC motor	
— at 230 V rated value	0.17 hp
for 3-phase AC motor	V.17 11p
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.5 hp
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	1.5 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the short-circuit trip	agricat
for short-circuit protection of the auxiliary switch	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
- 10. Short should protocion of the duvillary switch	. 200 gargo. 1074, miniataro onodit broaker o o 74 (short-onodit current

required	lk < 400 A)
design of the fuse link for IT network for short-circuit	
protection of the main circuit • at 400 V	gL/gG 25 A
• at 500 V	gL/gG 25 A
• at 690 V	gL/gG 20 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	0
 with side-by-side mounting at the side for grounded parts at 400 V 	0 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	20
— downwards — upwards	30 mm 30 mm
— upwards — at the side	9 mm
for grounded parts at 690 V	O THILL
— 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-tyne terminals
for main current circuit for auxiliary and control circuit	screw-type terminals screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
• for main contacts	
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for main contacts	2x (18 14), 2x 12
type of connectable conductor cross-sections	
for auxiliary contacts — solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 1.5 hill), 2x (0.75 2.5 hill) 2x (20 16), 2x (18 14)
tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
for auxiliary contacts with screw-type terminals	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 М3 • for main contacts · of the auxiliary and control contacts M3 Safety related data B10 value 5 000 with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] 50 FIT • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to 10 a protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle

Certificates/ approvals

General Product Approval

Declaration of Conformity

Confirmation











Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping







Confirmation

other



Railway

Confirmation Vibration and Shock

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=3RV2411-1CA15

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2411-1CA15}$

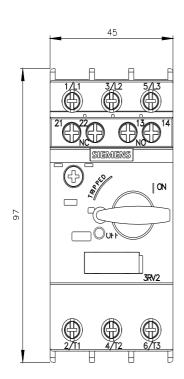
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1CA15

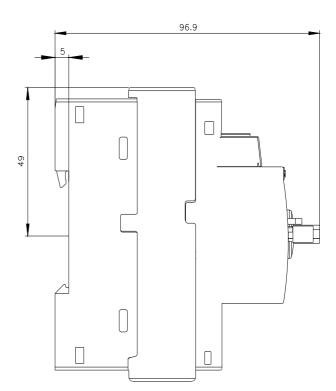
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

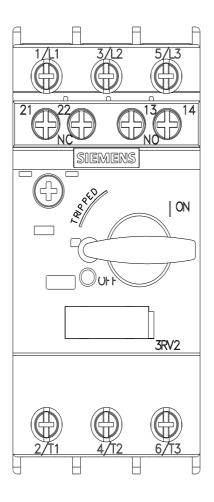
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1CA15&lang=en

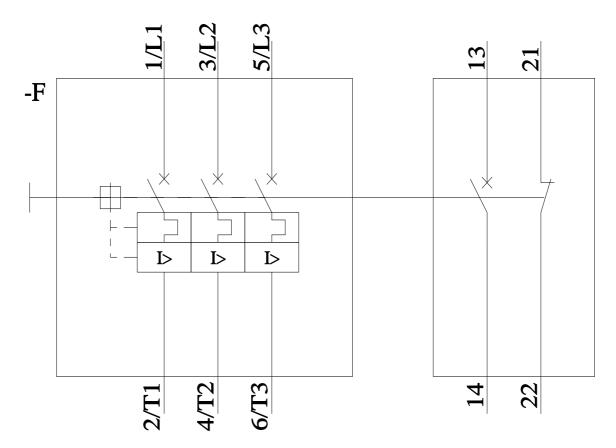
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1CA15/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1CA15&objecttype=14&gridview=view1









last modified: 11/21/2022 🖸