SIEMENS

Data sheet 3RV2411-1BA15





Circuit breaker size S00 for transformer protection A-release 1.4...2 A N release 42 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC



	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	
 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	Q
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
adicately account as a second control of the account	1.4 2 A
adjustable current response value current of the current- dependent overload release	
dependent overload release	20 690 V
dependent overload release operating voltage	20 690 V 690 V
dependent overload release operating voltage • rated value	

operational current rated value	2 A
operational current	
 at AC-3 at 400 V rated value 	2 A
at AC-3e at 400 V rated value	2 A
operating power	
• at AC-3	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.8 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	I.I KVV
	0.4 121/
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.8 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
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	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
● at 125 V	0.5 A
● at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
● at 60 V	0.15 A
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)	
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	10 kA
operating short-circuit current breaking capacity (lcs) 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 at 690 V rated value	10 kA
response value current of instantaneous short-circuit trip unit	42 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	2.4
	2 A
at 600 V rated value Violded manhanical performance [hn]	2 A
yielded mechanical performance [hp]	
for single-phase AC motor A COO Marked walks	0.40 h
— at 230 V rated value	0.13 hp
• for 3-phase AC motor	
— at 460/480 V rated value	1 hp
	1 hn
— at 575/600 V rated value	1 hp
— at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	C300 / R300

gnetic se gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 gG 25 A gG 25 A gG 20 A / ew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 mm mm mm mm
se gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 gG 25 A gG 25 A gG 20 A / ew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 mm mm mm
gG 25 A gG 25 A gG 20 A / ew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 mm mm mm
gG 25 A gG 20 A / ew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 mm mm mm
gG 25 A gG 20 A / ew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 mm mm mm
gG 25 A gG 20 A / ew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 mm mm mm
gG 20 A / ew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 mm mm mm
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(0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
tightening torque	-X(25 iii 10), 2X(10 iii 11)
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	
for main contacts	M3
of the auxiliary and control 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	
 with low demand rate according to SN 31920 	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 31920	50 FIT
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	
 for proof test interval or service life according to IEC 61508 	10 a
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









<u>KC</u>

General Product Approval

Test Certificates

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

RINA

Miscellaneous

other

Confirmation



Railway

Environment







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=3RV2411-1BA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1BA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1BA15

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

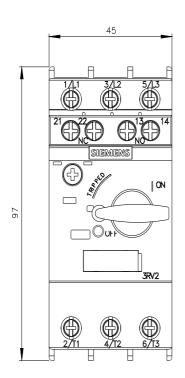
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1BA15&lang=en

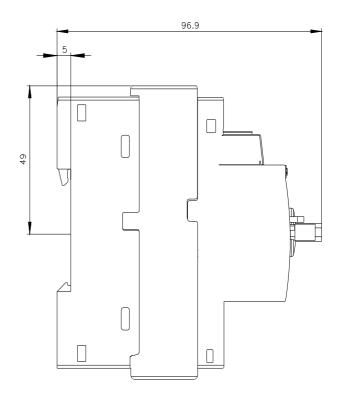
Characteristic: Tripping characteristics, I2t, Let-through current

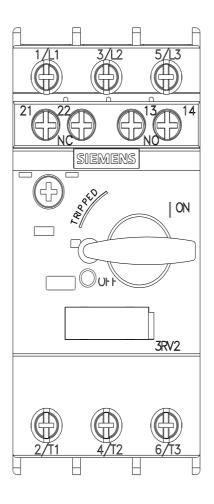
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1BA15/char

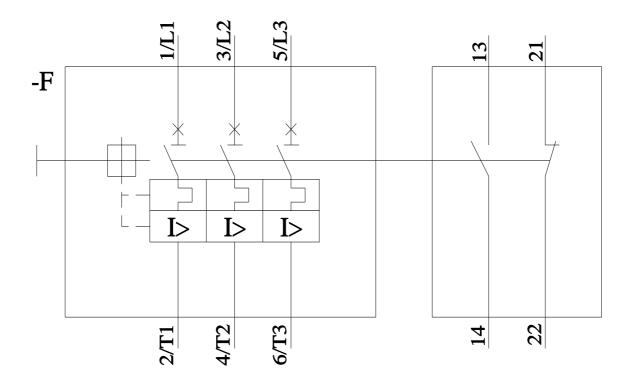
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1BA15&objecttype=14&gridview=view1









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