SIEMENS

Data sheet 3RV2411-4AA20



Circuit breaker size S00 for transformer protection A-release 10...16 A N-release 286 A Spring-type terminal Standard switching capacity

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	
 at AC in hot operating state 	9.25 W
 at AC in hot operating state per pole 	3.1 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
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	10 16 A
operating voltage	
rated value	20 690 V
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	16 A
operational current	
 at AC-3 at 400 V rated value 	16 A
 at AC-3e at 400 V rated value 	16 A
operating power	

1400	
• at AC-3	ALAM
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	A 1.3M
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value— at 690 V rated value	7.5 kW
operating frequency	11 kW
• at AC-3 maximum	15 1/h
at AC-3 maximum at AC-3e maximum	15 1/h
Auxiliary circuit	
	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	0
-	
Protective and monitoring functions	
product function	No
ground fault detection phase failure detection	No Yes
phase failure detection trip class	Yes CLASS 10
trip class design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	ulcillai
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	55 kA
at AC at 500 V rated value	10 kA
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (lcs)	
at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	30 kA
 at 500 V rated value 	5 kA
 at 690 V rated value 	2 kA
response value current of instantaneous short-circuit trip	286 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	40.4
 at 480 V rated value at 600 V rated value 	16 A 16 A
at 600 v rated value yielded mechanical performance [hp]	10 A
for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 110/120 V rated value	2 hp
for 3-phase AC motor	- ···k
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
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 240 V	gL/gG 80 A
• at 400 V	gL/gG 63 A
• at 500 V	gL/gG 50 A
● at 690 V	gL/gG 40 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	106 mm
width	45 mm

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Declaration of Conformity

Test Certificates

Marine / Shipping

<u>KC</u>



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other









Confirmation



Railway

Confirmation Vibration and Shock

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=3RV2411-4AA20

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2411-4AA20}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-4AA20

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

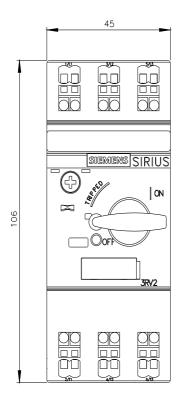
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-4AA20&lang=en

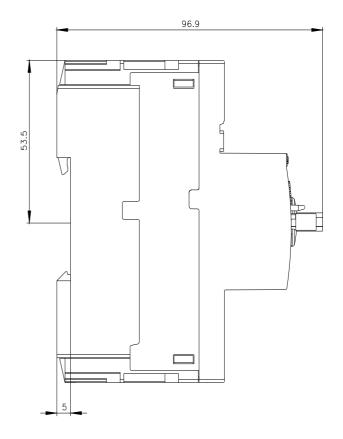
Characteristic: Tripping characteristics, I2t, Let-through current

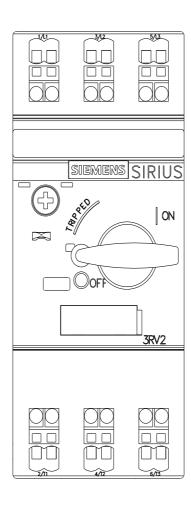
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-4AA20/char

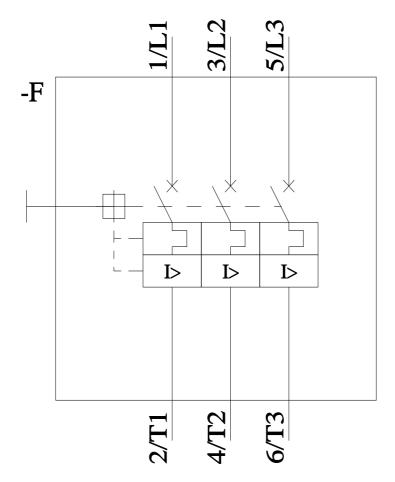
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-4AA20&objecttype=14&gridview=view1









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