SIEMENS

Data sheet 3RV2411-1AA20



Circuit breaker size S00 for transformer protection A-release 1.1...1.6 A N-release 33 A Spring-type terminal Standard switching capacity

product designation design of the product product type designation Size of the circuit-breaker size of ontactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current at AC in hot operating state to the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current at AC in hot operating state to the company-specific at AC in hot operating state to the company-specific at AC in hot operating state to the company-specific to th	product brand name	SIRIUS	
product type designation General technical data size of the circuit-breaker Size of contactor can be combined company-specific product extension auxiliary switch Power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole Insulation voltage with degree of poliution 3 at AC rated value surge voltage resistance rated value Surge voltage resistance rated value Surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical plectrical endurance (switching cycles) typical plot 00000 preference code according to IEC 81346-2 Q Substance Prohibitance (Date) plot 00000 preference code according to IEC 81346-2 Q Substance Prohibitance (Date) plot 00000 preference code according to IEC 81346-2 Q Substance Prohibitance (Date) plot 00000 preference code according to IEC 81346-2 Q Substance Prohibitance plot 00000 preference code according to IEC 81346-2 Q Substance Prohibitance plot 00000 preference code according to IEC 81346-2 Q Substance Prohibitance plot 00000 preference code according to IEC 81346-2 Q Substance Prohibitance plot 00000 prefer	product designation	Circuit breaker	
Size of the circuit-breaker Size of the circuit-breaker Size of the circuit-breaker Size of contactor can be combined company-specific Size of contactor can be combined contactor can be	design of the product	For transformer protection	
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating Voltage • rated value • at AC-3e rated value maximum • operating frequency rated value operational current rated value	product type designation	3RV2	
size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state	General technical data		
product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole at AC in hot operating state per pole 2.4 W insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical lefectrical endurance (switching cycles) typical reference code according to IEC 81346-2 Quustance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of utring operation of utring storage of utring transport relative humidity during operation 1095 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum especially a transport at AC in the current response value current of the current-dependent overload release operating frequency rated value operational current rated value	size of the circuit-breaker	S00	
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value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical lectrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage oduring storage oduring transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage orated value at AC-3e rated value maximum operational current rated value operational current of the KV story 100 000 100 00 100 000	at AC in hot operating state per pole	2.4 W	
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 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 current-dependent overload release operating voltage rated value at AC-3 rated value maximum at AC-3e rated value maximum operating frequency rated value operational current rated value 1.1 1.6 A operational current operational current 	ambient temperature		
 ◆ during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum • operating frequency rated value operational current rated value 1.1 1.6 A 690 V • at AC-3e rated value maximum 690 V operational current rated value 1.6 A operational current 	 during operation 	-20 +60 °C	
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 1.6 A operational current	during storage	-50 +80 °C	
Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • rated value maximum • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 1.6 A	during transport	-50 +80 °C	
number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 1.1 1.6 A 1.1 1.6 A 1.1 1.6 A 1.2 690 V 690 V 690 V 160 Hz 160 Hz	relative humidity during operation	10 95 %	
adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 1.1 1.6 A 1.1 1.6 A 1.1 1.6 A	Main circuit		
current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 1.6 A	number of poles for main current circuit	3	
 rated value at AC-3 rated value maximum at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current 		1.1 1.6 A	
 at AC-3 rated value maximum at AC-3e rated value maximum operating frequency rated value operational current rated value operational current 	operating voltage		
 at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current 	• rated value	20 690 V	
operating frequency rated value 50 60 Hz operational current rated value 1.6 A operational current	 at AC-3 rated value maximum 	690 V	
operational current rated value 1.6 A operational current	at AC-3e rated value maximum	690 V	
operational current	operating frequency rated value	50 60 Hz	
	operational current rated value	1.6 A	
• at AC-3 at 400 V rated value 1.6 A	operational current		
	at AC-3 at 400 V rated value	1.6 A	

a at AC 2a at 400 V rated value	1.6 A
at AC-3e at 400 V rated value	1.0 A
operating power • at AC-3	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.6 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	0.01114
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.6 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
operating frequency	4-40
• 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
breaking capacity maximum short-circuit current (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
breaking capacity operating short-circuit current (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	33 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	1.6 A
 at 600 V rated value 	1.6 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 230 V rated value	0.1 hp
• for 3-phase AC motor	
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	0.8 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 500 V	gL/gG 20 A
• at 690 V	gL/gG 16 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
height	106 mm

width	45 mm
depth	97 mm
required spacing	or min
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	3 111111
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
	9 111111
for grounded parts at 500 V— downwards	30 mm
— upwards	30 mm
•	9 mm
— at the side	9 111111
• for live parts at 500 V	20
— 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	spring-loaded terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG cables for main contacts	2x (20 12)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	3,0 x 0,5 mm
Safety related data	
B10 value	
with high demand rate according to SN 31920	5 000
proportion of dangerous failures	
with low demand rate according to SN 31920	50 %
with high demand rate according to SN 31920 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 y
T1 value for proof test interval or service life according to IEC 61508	*
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 version for switching status	Handle
Certificates/ approvals	
General Product Approval	
σοποιαι ι τουμού Αργιοναι	





Confirmation



<u>KC</u>



Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping











Confirmation

other

other

Railway



Vibration and Shock

Confirmation

Further information

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=3RV2411-1AA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1AA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1AA20

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

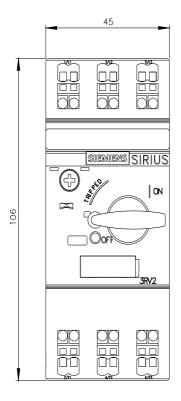
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1AA20&lang=en

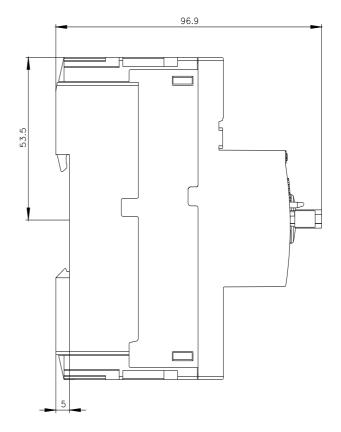
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1AA20/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1AA20&objecttype=14&gridview=view1





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