## SIEMENS

## Data sheet

## 3RV2421-4AA20

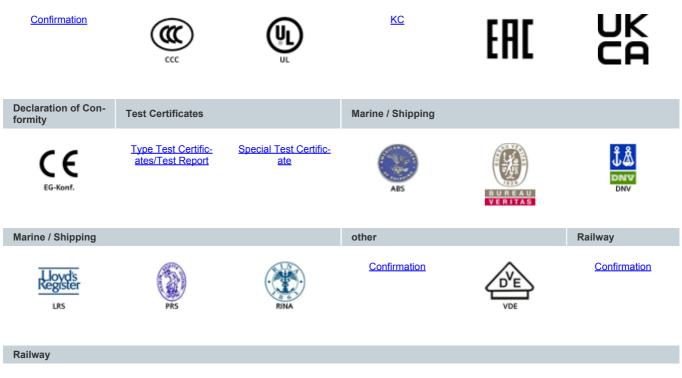


Circuit breaker size S0 for transformer protection A-release 10...16 A N-release 286 A Spring-type terminal Standard switching capacity

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         size of the circuit-breaker       S0         size of contactor can be combined company-specific       S00, S0         product extension auxiliary switch       Yes         power loss [W] for rated value of the current       9.25 W	
design of the product       For transformer protection         product type designation       3RV2         General technical data       size of the circuit-breaker         size of the circuit-breaker       S0         size of contactor can be combined company-specific       S00, S0         product extension auxiliary switch       Yes         power loss [W] for rated value of the current       S0	
product type designation     3RV2       General technical data     S0       size of the circuit-breaker     S0       size of contactor can be combined company-specific     S00, S0       product extension auxiliary switch     Yes       power loss [W] for rated value of the current     Yes	
General technical data         size of the circuit-breaker       S0         size of contactor can be combined company-specific       S00, S0         product extension auxiliary switch       Yes         power loss [W] for rated value of the current       Yes	
size of the circuit-breaker     S0       size of contactor can be combined company-specific     S00, S0       product extension auxiliary switch     Yes       power loss [W] for rated value of the current     Yes	
size of contactor can be combined company-specific       S00, S0         product extension auxiliary switch       Yes         power loss [W] for rated value of the current       Yes	
product extension auxiliary switch     Yes       power loss [W] for rated value of the current     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-       10 16 A         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	
• at AC-3	
— 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	
— 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
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
• phase failure detection trip class	CLASS 10
-	thermal
design of the overload release	uleiniai
maximum short-circuit current breaking capacity (Icu)	100 μ
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 (Ics) at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	25 kA
• at 500 V rated value	5 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	286 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	16 A
at 600 V rated value	16 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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 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	119 mm
width	45 mm
depth	97 mm
	••••

0 mm 30 mm 30 mm 9 mm 30 mm 30 mm 9 mm 30 mm 9 mm				
30 mm 30 mm 9 mm 30 mm 30 mm 9 mm 30 mm 30 mm				
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0 mm				
spring-loaded terminals				
Top and bottom				
3,0 x 0,5 mm				
5 000				
50 %				
50 %				
50 FIT				
10 a				
IP20				
finger-safe, for vertical contact from the front				
Handle				
	Declaration of Co			
	30 mm         9 mm         50 mm         0 mm         30 mm         0 mm         30 mm         0 mm         50 mm         0 mm         50 mm         0 mm         30 mm         0 mm         2x (1 10 mm²)         2x (1 6 mm²)         2x (1 6 mm²)         2x (1 6 mm²)         2x (1 8)         Diameter 3 mm         3,0 x 0,5 mm         50 %         50 %         50 %         50 %         50 %         50 FIT         10 a         IP20         inger-safe, for vertical contact from the front			



Vibration and Shock

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		шш	Unna	

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RV2421-4AA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2421-4AA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2421-4AA20

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

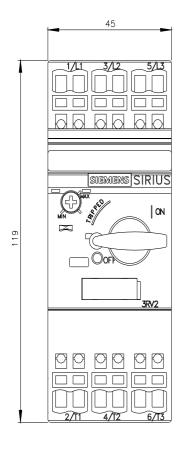
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2421-4AA20&lang=en

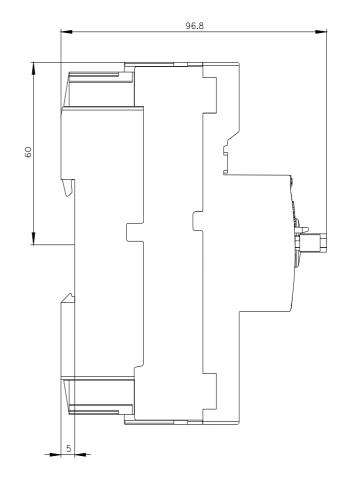
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

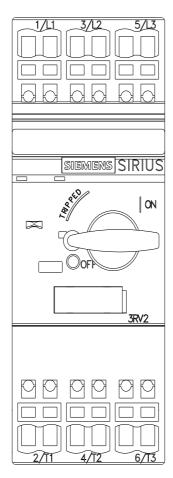
https://support.industry.siemens.com/cs/ww/en/ps/3RV2421-4AA20/char

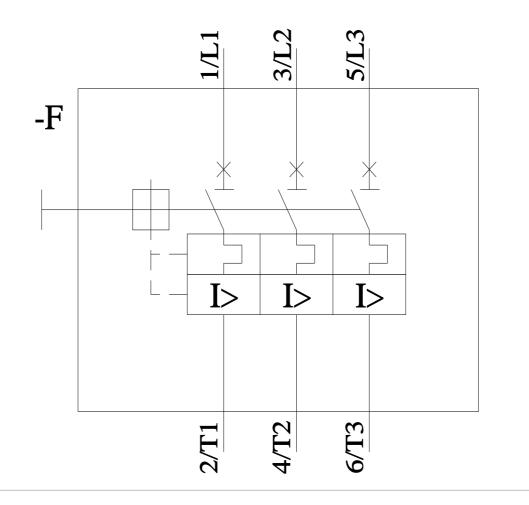
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2421-4AA20&objecttype=14&gridview=view1









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Siemens: <u>3RV24214AA20</u>