SIEMENS

Data sheet

3RV2411-1GA20



Circuit breaker size S00 for transformer protection A-release 4.5...6.3 A N release 130 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 7.25 W	
• at AC in hot operating state per pole 2.4 W	
insulation voltage with degree of pollution 3 at AC rated 690 V value	
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 release4.5 6.3 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 6.3 A	
operational current	
• at AC-3 at 400 V rated value 6.3 A	
• at AC-3e at 400 V rated value 6.3 A	
operating power	

• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	2.2 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	2.2 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 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
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 	6 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 	4 kA
response value current of instantaneous short-circuit trip unit	130 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	6.3 A
at 600 V rated value	6.3 A
yielded mechanical performance [hp]	0.0 A
for single-phase AC motor	
- at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.5 hp
for 3-phase AC motor at 200/208 V roted value	1 hn
— at 200/208 V rated value	1 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 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 50 A
• at 500 V	gL/gG 40 A
• at 690 V	gL/gG 35 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

	07	
depth	97 mm	
required spacing		
• with side-by-side mounting at the side	0 mm	
 for grounded parts at 400 V 		
— 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 		
— downwards	30 mm	
— upwards	30 mm	
— at the side	9 mm	
 for grounded parts at 690 V 	· mit	
 or grounded parts at 090 v downwards 	50 mm	
	50 mm	
— upwards		
— 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		
	5 000	
with high demand rate according to SN 31920 properties of dangerous failures	5 000	
proportion of dangerous failures	50 %	
with low demand rate according to SN 31920 with high demand rate according to SN 31920	50 %	
with high demand rate according to SN 31920	50 %	
failure rate [FIT]		
• with low demand rate according to SN 31920	50 FIT	
T1 value for proof test interval or service life according to IEC 61508	10 a	
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 Certificates/ approvals	Handle	
General Product Approval		Declaration of Conformity

<u>Confirmation</u>	CCC		<u>KC</u>	EAC	UK CA		
Declaration of Conformity	Test Certificates		Marine / Shipping				
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	B UREAU VERITAS			
Marine / Shipping			other		Railway		
Lloyds Register	PRS	RINA	<u>Confirmation</u>	UDE VDE	Vibration and Shock		
Railway							
<u>Confirmation</u>							
Further information							
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=3RV2411-1GA20 Cax online generator							

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1GA20

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

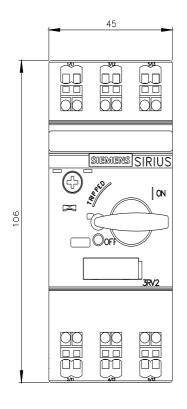
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1GA20

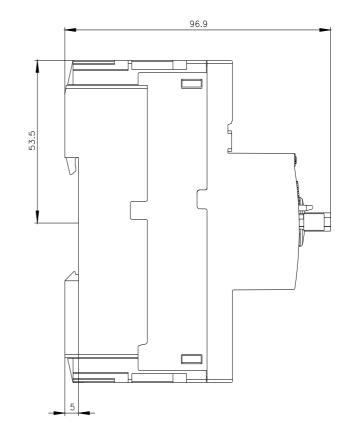
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1GA20&lang=en

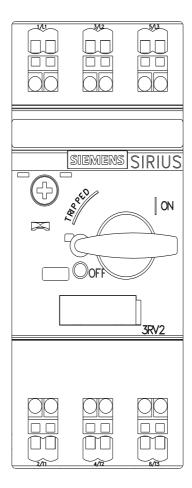
Characteristic: Tripping characteristics, I²t, Let-through current

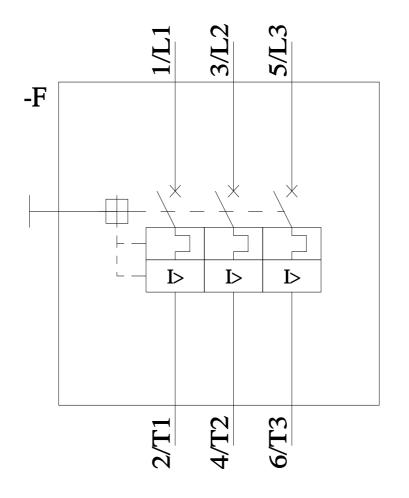
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1GA20/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1GA20&objecttype=14&gridview=view1









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