SIEMENS

Data sheet

3RV2411-1BA20



Circuit breaker size S00 for transformer protection A-release 1.4...2 A N release 42 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 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	1.4 2 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	2 A
operational current	
• at AC-3 at 400 V rated value	2 A
 at AC-3 at 400 V rated value at AC-3e at 400 V rated value operating power 	2 A 2 A

• 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	
— 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	
number of NC contacts for auxiliary contacts	0
-	
number of NO contacts for auxiliary contacts	0 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 (lcu)	
 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	10 kA
response value current of instantaneous short-circuit trip	42 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	2 A
• at 600 V rated value	2 A
yielded mechanical performance [hp]	
for single-phase AC motor	
- at 230 V rated value	0.13 hp
• for 3-phase AC motor	
 Ioi 5-phase AC motor at 460/480 V rated value 	1 hp
— at 575/600 V rated value	1 hp
	чир
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 25 A
• at 500 V	gL/gG 25 A
• at 690 V	gL/gG 20 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
depth	97 mm
required spacing	
 with side-by-side mounting at the side 	0 mm

Confirmation	KC	
General Product Approval		Declaration of Conformity
rtificates/ approvals		
isplay version for switching status	Handle	
buch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
rotection class IP on the front according to IEC 0529	IP20	
1 value for proof test interval or service life according to EC 61508	10 a	
with low demand rate according to SN 31920	50 FIT	
 with high demand rate according to SN 31920 ailure rate [FIT] 	50 %	
with low demand rate according to SN 31920	50 %	
roportion of dangerous failures		
• with high demand rate according to SN 31920	5 000	
10 value		
fety related data		
ize of the screwdriver tip	3,0 x 0,5 mm	
 at AWG cables for main contacts esign of screwdriver shaft 	2x (20 12) Diameter 3 mm	
— finely stranded without core end processing	2x (0.5 2.5 mm ²)	
- finely stranded with core end processing	2x (0.5 2.5 mm²)	
— solid or stranded	2x (0,5 4 mm²)	
for main contacts		
ircuit /pe of connectable conductor cross-sections		
rrangement of electrical connectors for main current	Top and bottom	
for main current circuit	spring-loaded terminals	
/pe of electrical connection		
nnections/ Terminals		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
 for live parts at 690 V downwards 	50 mm	
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
 for grounded parts at 690 V 		
— upwards — at the side	30 mm 9 mm	
— downwards	30 mm	
● for live parts at 500 V		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
 for grounded parts at 500 V 		
— at the side	9 mm	
— downwards — upwards	30 mm 30 mm	
 for live parts at 400 V downwards 	20 mm	
— at the side	9 mm	
— upwards	30 mm	

2/23/2023

Subject to change without notice © Copyright Siemens



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=3RV2411-1BA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1BA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1BA20

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

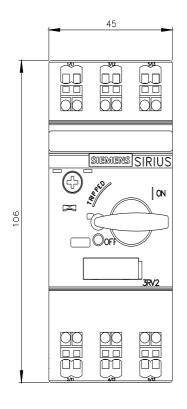
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1BA20&lang=en

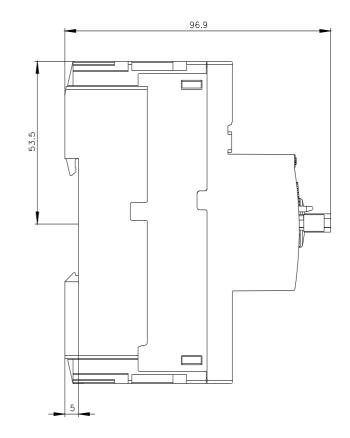
Characteristic: Tripping characteristics, I²t, Let-through current

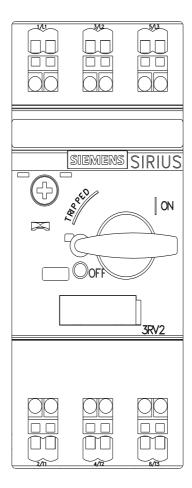
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1BA20/char

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

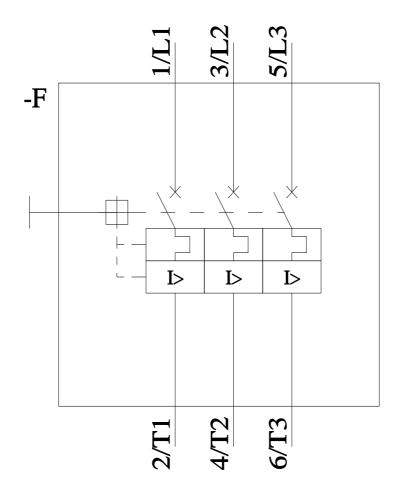
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1BA20&objecttype=14&gridview=view1







2/23/2023



last modified:

11/21/2022 🖸