SIEMENS

Data sheet 3RV2411-1FA20



Circuit breaker size S00 for transformer protection A-release 3.5...5 A N-release 104 A Spring-type terminal Standard switching capacity

SIRIUS product brand name product designation Circuit breaker design of the product For transformer protection product type designation 3RV2 General technical data S00 size of the circuit-breaker 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 24 W • at AC in hot operating state per pole 690 V insulation voltage with degree of pollution 3 at AC rated 6 kV surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 100 000 • of the main contacts typical · of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 C **Substance Prohibitance (Date)** 10/01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C • during operation -50 ... +80 °C • 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 3.5 ... 5 A current-dependent overload release operating voltage rated value 20 ... 690 V 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum operating frequency rated value 50 ... 60 Hz operational current rated value 5 A operational current • at AC-3 at 400 V rated value 5 A at AC-3e at 400 V rated value 5 A operating power

• at AC-3	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 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 (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 	4 kA
response value current of instantaneous short-circuit trip	104 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	5 A
 at 600 V rated value 	5 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
 — at 110/120 V rated value 	0.17 hp
— at 230 V rated value	0.5 hp
 for 3-phase AC motor 	
 — at 200/208 V rated value 	1 hp
 — at 220/230 V rated value 	1 hp
 — at 460/480 V rated value 	3 hp
— at 575/600 V rated value	3 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 32 A
● at 500 V	gL/gG 32 A
• at 690 V	gL/gG 25 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

— finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle	
— finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front	
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— finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT]	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 %	
— finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000	
— finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000	
— finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm	
— finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm	
— finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm	
 finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip 	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm	
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 finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft 	2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm	
— finely stranded without core end processing• at AWG cables for main contacts	2x (0.5 2.5 mm²) 2x (20 12)	
 finely stranded with core end processing 	,	
	2x (0.5 2.5 mm²)	
— solid or stranded	2x (0,5 4 mm²)	
for main contacts		
type of connectable conductor cross-sections		
arrangement of electrical connectors for main current circuit	Top and bottom	
for main current circuit	spring-loaded terminals	
type of electrical connection		
Connections/ Terminals		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
• for live parts at 690 V		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
for grounded parts at 690 V	V IIIIII	
— upwards — at the side	9 mm	
— downwards	30 mm 30 mm	
• for live parts at 500 V	20 mm	
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
• for grounded parts at 500 V		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
 for live parts at 400 V 		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
 for grounded parts at 400 V 		
- -	0 mm	
with side-by-side mounting at the side		
depthrequired spacingwith side-by-side mounting at the side	97 mm	









Declaration of Conformity

Test Certificates

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other

Railway







Confirmation



Vibration and Shock

Railway

Confirmation

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=3RV2411-1FA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1FA20

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1FA20

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

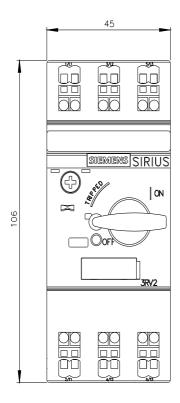
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1FA20&lang=en

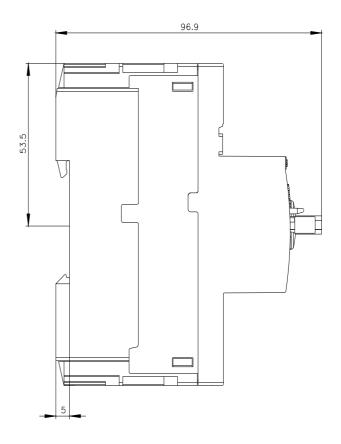
Characteristic: Tripping characteristics, I2t, Let-through current

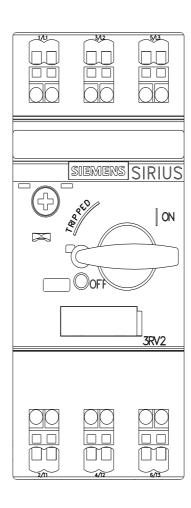
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1FA20/char

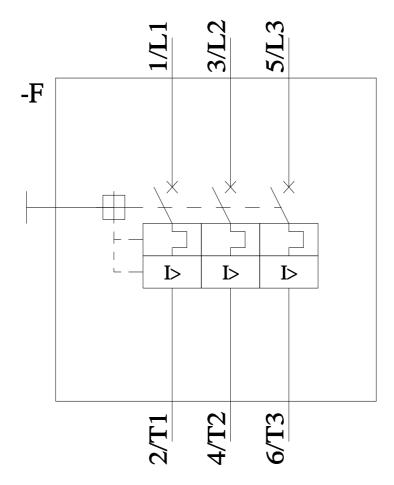
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1FA20&objecttype=14&gridview=view1









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