SIEMENS

Data sheet 3RV2411-0FA10



Circuit breaker size S00 for transformer protection A-release 0.35...0.5 A N-release 10 A screw 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 5.5 W 1.8 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 0 **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 0.35 ... 0.5 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 0.5 A operational current • at AC-3 at 400 V rated value 0.5 A at AC-3e at 400 V rated value 0.5 A operating power

• at AC-3
at 400 V rated value
at 500 V rated value
- at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 690 V rated value - at AC-3 maximum 15 1/h • at AC-3 maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of No contacts for auxiliary co
at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — ot 690 V rated value — ot 690 V rated value — ot 690 V rated value operating frequency at AC-3 maximum — at AC-3e maximum — at AC-3e maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 number of CC contacts for auxiliary contacts 0 protective and monitoring functions product function ground fault detection Yes trip class design of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value 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 at 40 V rated value 100 kA at 400 V rated value 100 kA
— at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value O.2 kW operating frequency ■ at AC-3 maximum ■ 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 protective and monitoring functions product function ■ ground fault detection ■ ground fault detection ■ phase failure detection Yes trip class design of the overload release maximum short-circuit current breaking capacity (Icu) ■ at AC at 240 V rated value ■ at AC at 500 V rated value ■ at AC at 690 V rated value ■ at AC at 500 V rated value ■ at AC at 240 V rated value ■ at AC at 240 V rated value ■ at AC at 240 V rated value ■ at AC at 500 V rated value ■ at 600 V rated value
at 400 V rated value
- at 500 V rated value
- at 690 V rated value operating frequency • at AC-3 maximum • at AC-3e maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts 0 Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value
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 at 500 V rated value at 690 V rated value 100 kA
• at 690 V rated value 100 kA
response value current of instantaneous short-circuit trip unit
UL/CSA ratings
full-load current (FLA) for 3-phase AC motor
• at 480 V rated value 0.5 A
• at 600 V rated value 0.5 A
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 690 V gL/gG 4 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 97 mm
width 45 mm
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 		
— 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	screw-type terminals	
arrangement of electrical connectors for main current	Top and bottom	
circuit		
type of connectable conductor cross-sections		
 for main contacts 		
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 at AWG cables for main contacts 	2x (18 14), 2x 12	
tightening torque		
 for main contacts with screw-type terminals 	0.8 1.2 N·m	
design of screwdriver shaft	Diameter 5 to 6 mm	
size of the screwdriver tip	Pozidriv size 2	
design of the thread of the connection screw		
• for main contacts	M3	
Safety related data		
B10 value		
with high demand rate according to SN 31920	5 000	
proportion of dangerous failures	0 000	
with low demand rate according to SN 31920	50 %	
with high demand rate according to SN 31920	50 %	
failure rate [FIT]	33 //	
with low demand rate according to SN 31920	50 FIT	
T1 value for proof test interval or service life according to	10 a	
IEC 61508	10 α	
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 Declaration of Conformity		
		Joinorninty
Confirmation	EAC	C €

Declaration of Conformity	Test Certificates	Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other









Confirmation



Railway

Confirmation Vibration and Shock

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=3RV2411-0FA10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2411-0FA10}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0FA10

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

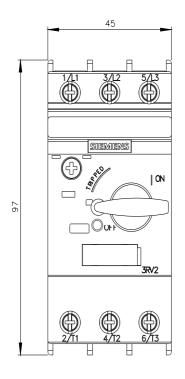
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-0FA10&lang=en

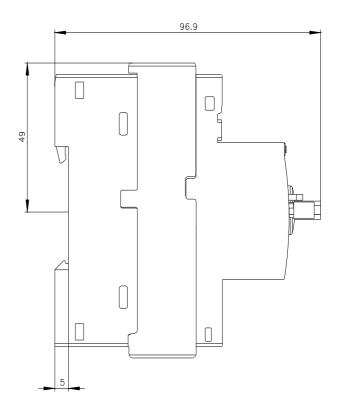
Characteristic: Tripping characteristics, I2t, Let-through current

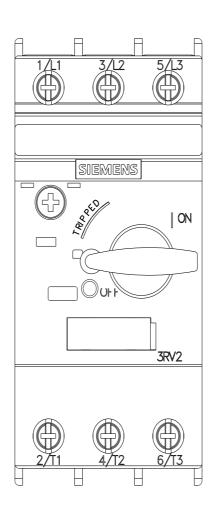
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0FA10/char

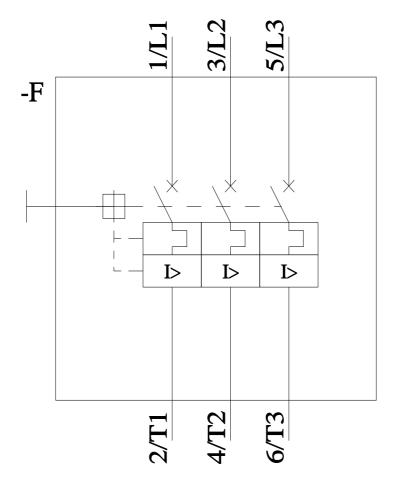
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-0FA10&objecttype=14&gridview=view1









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