SIEMENS

Data sheet 3RV2411-1EA10



Circuit breaker size S00 for transformer protection A-release 2.8...4 A N-release 82 A screw terminal Standard switching capacity

product designation design of the product product type designation 3RV2 General technical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch product extension auxiliary switch yes power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state surge voltage resistance rated value surge voltage resistance rated value of the main contacts typical electrical endurance (switching cycles) of the main contacts typical electrical endurance (switching cycles) freference code according to IEC 81348-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum during operation during storage of uning transport relative humidity during operation All ricuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage at AC-3a rated value maximum en contacting reception at AC-3a rated value maximum en at AC-3a rated value maximum en at AC-3a rated value maximum en contacting reception en at AC-3a rated value maximum en at AC-3a rated value maximum en at AC-3a rated value en contacting reception en at AC-3a rated value maximum en at AC-3a rated value en aximum en at AC-3a rated value en aximum en at AC-3a rated value en aximum en at AC-3a rated value en at AC-3a rated value en at AC-3a rated va	product brand name	SIRIUS	
Seneral technical data	•	Circuit breaker	
Seneral technical data	design of the product	For transformer protection	
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state prole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) • of the main contacts typical of auxiliary contacts typical low 000 electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum auding operation • during operation • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operational current ated value operational current ated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value		3RV2	
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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 (switching cycles) of the main contacts typical 100 000 electrical endurance (switching cycles) typical 100 000 electrical endurance (switching 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 ambient temperature oluring operation 20 00 m ambient temperature oluring storage 50 +60 °C oluring transport 50 +80 °C oluring 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 operating voltage artaed value 20 690 V at AC-3e rated value maximum 690 V at AC-3e rated value maximum 690 V operational current rated value 4 A operational current at AC-3 at 400 V rated value 4 A operational current at AC-3 at 400 V rated value 4 A	product extension auxiliary switch	Yes	
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Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operational current rated value operational current rated value 4 A operational current at AC-3 at 400 V rated value 4 A	electrical endurance (switching cycles) typical	100 000	
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Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • rated value maximum • at AC-3 rated value maximum operating frequency rated value operational current rated value 4 A operational current at AC-3 at 400 V rated value 4 A	during transport	-50 +80 °C	
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adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value operational current at AC-3 at 400 V rated value 4 A	Main circuit		
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operating frequency rated value 50 60 Hz operational current rated value 4 A operational current at AC-3 at 400 V rated value 4 A	 at AC-3 rated value maximum 	690 V	
operational current rated value 4 A operational current at AC-3 at 400 V rated value 4 A	at AC-3e rated value maximum	690 V	
operational current at AC-3 at 400 V rated value 4 A	operating frequency rated value	50 60 Hz	
· · · · · · · · · · · · · · · · · · ·	operational current rated value	4 A	
operating power	operational current at AC-3 at 400 V rated value	4 A	
operating power	operating power		

• at AC-3	
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
• at AC-3e	
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 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
	C .
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (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
breaking capacity operating short-circuit current (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	82 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4 A
at 600 V rated value	4 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.13 hp
— at 230 V rated value	0.33 hp
for 3-phase AC motor	0.00 112
— at 200/208 V rated value	0.8 hp
	0.8 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	2 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 standard mounting rail
-	

	according to DIN EN COZAF
h-t-h4	according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
 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	O IIIIII
— downwards	50 mm
	50 mm
— upwards	
— 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 circuit	Top and bottom
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	
with low demand rate according to SN 31920	50 %
with high demand rate according to SN 31920	50 %
	- OO 70
failure rate [FIT]	50 EIT
	50 FIT
with low demand rate according to SN 31920 T1 value for proof test interval or service life according to	10 y
	10 y

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front

display version for switching status

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>





Marine / Shipping











Confirmation

other

other

Railway



Confirmation

Vibration and Shock

Further information

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=3RV2411-1EA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1EA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1EA10

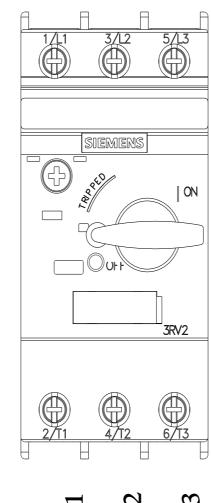
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

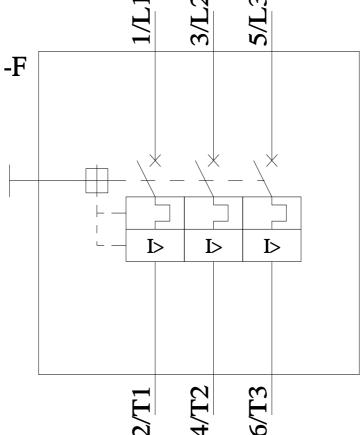
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1EA10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1EA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1EA10&objecttype=14&gridview=view1





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