## SIEMENS

## Data sheet

## 3RV2411-1EA15



Circuit breaker size S00 for transformer protection A-release 2.8...4 A N-release 82 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC  $\,$ 

4/12 6/13			
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			
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	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)			
<ul> <li>of the main contacts typical</li> </ul>	100 000		
<ul> <li>of auxiliary contacts typical</li> </ul>	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			
<ul> <li>during operation</li> </ul>	-20 +60 °C		
<ul> <li>during storage</li> </ul>	-50 +80 °C		
<ul> <li>during transport</li> </ul>	-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	2.8 4 A		
operating voltage			
<ul> <li>rated value</li> </ul>	20 690 V		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V		
operating frequency rated value	50 60 Hz		
operational current rated value	4 A		
operational current			
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	4 A		
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	4 A		

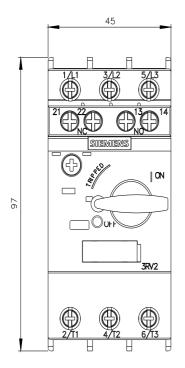
• at AC-3	0.01111
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
• at AC-3e	0.0 100
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
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)	400 1.4
• 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
<ul> <li>at 500 V rated value</li> </ul>	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
<ul> <li>at 600 V rated value</li> </ul>	4 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.13 hp
— at 230 V rated value	0.33 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	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
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	

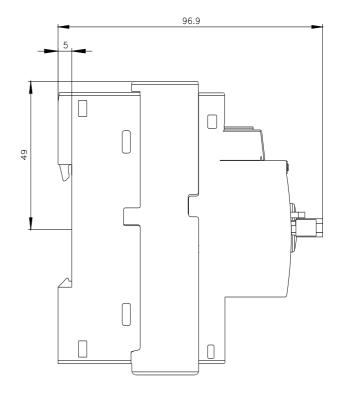
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)				
design of the fuse link for IT network for short-circuit					
protection of the main circuit ● at 400 V	gL/gG 32 A				
• at 500 V	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 width	97 mm				
depth	45 mm 97 mm				
required spacing					
with side-by-side mounting at the side	0 mm				
<ul> <li>for grounded parts at 400 V</li> </ul>					
— downwards	30 mm				
— upwards	30 mm				
<ul> <li>at the side</li> <li>for live parts at 400 V</li> </ul>	9 mm				
<ul> <li>for live parts at 400 v</li> <li>downwards</li> </ul>	30 mm				
— upwards	30 mm				
— at the side	9 mm				
<ul> <li>for grounded parts at 500 V</li> </ul>					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
<ul> <li>for live parts at 500 V</li> <li>— downwards</li> </ul>	20				
— upwards	30 mm 30 mm				
— at the side	9 mm				
<ul> <li>for grounded parts at 690 V</li> </ul>					
— downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
<ul><li>forwards</li><li>for live parts at 690 V</li></ul>	0 mm				
- 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     for auxiliary and control circuit	screw-type terminals				
<ul> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current</li> </ul>	screw-type terminals Top and bottom				
circuit					
type of connectable conductor cross-sections					
<ul> <li>for main contacts</li> </ul>					
— solid or stranded	2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>				
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )				
<ul> <li>at AWG cables for main contacts</li> <li>type of connectable conductor cross-sections</li> </ul>	2x (18 14), 2x 12				
for auxiliary contacts					
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)				
tightening torque					
for main contacts with screw-type terminals	0.8 1.2 N·m				
<ul> <li>for auxiliary contacts with screw-type terminals</li> <li>design of screwdriver shaft</li> </ul>	0.8 1.2 N·m Diameter 5 to 6 mm				
design of screwdriver shaft	Diameter 5 to 6 mm				

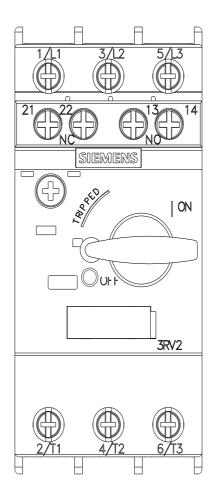
<ul> <li>for main contact</li> <li>of the auxiliary</li> <li>Safety related data</li> <li>B10 value         <ul> <li>with high dema</li> <li>proportion of dange</li> <li>with low demart</li> <li>with high dema</li> </ul> </li> <li>failure rate [FIT]         <ul> <li>with low demart</li> <li>T1 value for proof test IEC 61508</li> <li>protection class IP of 60529</li> </ul> </li> </ul>	I of the connection so its and control contacts ind rate according to Sh rous failures and rate according to SN ind rate according to SN ind rate according to SN it interval or service life in the front according	rew N 31920 31920 N 31920 31920 according to to IEC	Pozidriv size 2 M3 M3 5 000 50 % 50 % 50 FIT 10 a IP20		
display version for sw	the front according to ritching status		finger-safe, for vertical contact from the front Handle		
Certificates/ approval	S				
General Product Ap	oproval				Declaration of Conformity
<u>Confirmation</u>		(UL)	KC	EHC	UK CA
Declaration of Conformity	Test Certificates		Marine / Shipping		
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Cerl ate	ific- ABS	BUREAU VERITAS	
Marine / Shipping				other	
Lloyds Register urs	PRS	RINA	RMRS RMRS	<u>Confirmation</u>	VDE
Railway					
Vibration and Shock	Confirmation				

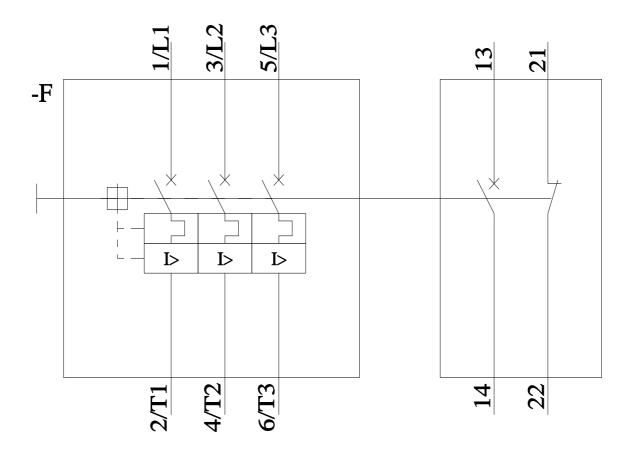
Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2411-1EA15
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1EA15
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1EA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2411-1EA15&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1EA15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1EA15&objecttype=14&gridview=view1









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