SIEMENS

Data sheet

3RV2011-4AA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 10...16 A N-release 208 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

<u> 5/75</u>	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor 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 	9.25 W
 at AC in hot operating state per pole 	3.1 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
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
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	10 16 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	16 A
operational current	

 at AC-3 at 400 V rated value 	16 A
 at AC-3e at 400 V rated value 	16 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 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
	U Contraction of the second se
operational current of auxiliary contacts at AC-15 • at 24 V	2 A
	2 A 0.5 A
• at 120 V	
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1A
• 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 (lcu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	55 kA
 at AC at 500 V rated value 	10 kA
• at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	30 kA
• at 500 V rated value	5 kA
• at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	208 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	16 A
• at 600 V rated value	16 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	C300 / R300

product function short circuit protection	Yes			
design of the short-circuit trip	magnetic			
design of the fuse link	magnetic			
for short-circuit protection of the auxiliary switch required	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)			
design of the fuse link for IT network for short-circuit				
protection of the main circuit				
• at 240 V	gL/gG 80 A			
• at 400 V	gL/gG 63 A			
• at 500 V	gL/gG 50 A			
• at 690 V	gL/gG 40 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			
 for auxiliary and control 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 mm ²), 2x (0.75 2.5 mm ²)			
for AWG cables for main contacts	2x (18 14), 2x 12			
type of connectable conductor cross-sections				
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)				
for AWG cables for auxiliary contacts		2x (20 16), 2x (18 14)				
tightening torque						
• for main contacts with screw-type terminals			0.8 1.2 N·m			
 for auxiliary 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				
-	f the connection screw					
for main contacts			M3			
 of the auxiliary and control contacts 			M3			
Safety related data		_			_	
B10 value			E 000			
with high demand rate according to SN 31920		5 000				
 proportion of dangerous failures with low demand rate according to SN 31920 			50 %			
	I rate according to SN 31920	1	50 %			
failure rate [FIT]		,	00 /0			
with low demand rate according to SN 31920			50 FIT			
	nterval or service life accordi	ng to IEC	10 a			
	the front according to IEC	60529	IP20			
-	e front according to IEC 6		finger-safe, for vertical contact from the front			
display version for switching status		Handle				
Certificates/ approvals	-					
General Product Appr	oval				For use in hazard- ous locations	
					ous locations	
For use in hazard-						
ous locations	Declaration of Conformi	ty	Test Certificates		Marine / Shipping	
IECE×	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Llovds Register uis	PRS	RINA	<u>Confirmation</u>	
other	Railway					
	Vibration and Shock	<u>Confirmation</u>	L			
Further information						
	to exit the Russian market					
https://press.siemens.co	om/global/en/pressrelease/si the renewal of the curren	emens-wind-dov				

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=3RV2011-4AA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-4AA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA15

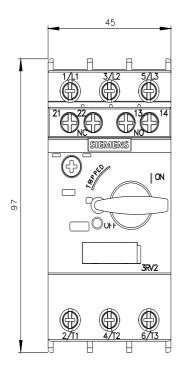
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

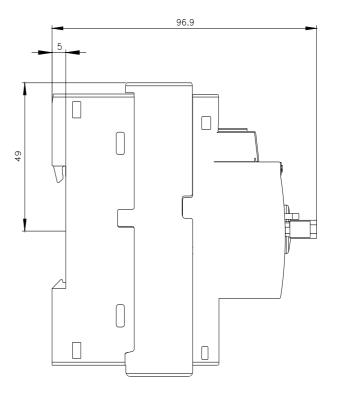
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-4AA15&lang=en

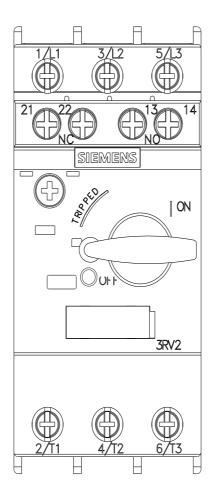
Characteristic: Tripping characteristics, I²t, Let-through current

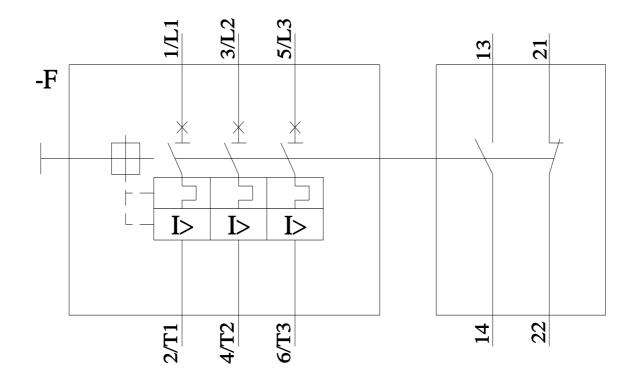
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA15/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-4AA15&objecttype=14&gridview=view1









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