SIEMENS

Data sheet

3RV2111-4AA10



Circuit breaker size S00 for motor protection, CLASS 10 with overload relay function A-release 10...16 A N-release 208 A screw terminal Standard switching capacity

product brand name	SIRIUS			
product designation	Circuit breaker			
design of the product	For motor protection with overload relay function			
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			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	10/01/2009			
SVHC substance name	Lead - 7439-92-1			
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	laterally
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	1.5 A
• at 230 V	1.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 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)	
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	- ··p
- at 200/208 V rated value	3 hp
— at 220/200 V rated value	5 hp
— at 460/480 V rated value	o np
	10 bp
	10 hp
contact rating of auxiliary contacts according to UL	10 hp C600 / R300
contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection	

design of the short-circuit trip	magnetic			
design of the fuse link	magnete			
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 6 A, quick: 10 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			
nstallation/ 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	65 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	5 mm			
- downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
for grounded parts at 690 V	3 1111			
 Hol grounded parts at 050 v — downwards 	50 mm			
— upwards	50 mm			
— upwards — backwards	0 mm			
— at the side	30 mm			
— at the side — forwards	0 mm			
 for live parts at 690 V 	0 mm			
	50 mm			
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	30 mm			
— forwards Connections/ Terminals	0 mm			
type of electrical connection	screw type terminals			
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 mm ²), 2x (0.75 2.5 mm ²)			
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)			
- IN AWO CODIES IN AUXILIARY CONTACTS	$L_{\Lambda}(L_{0} \dots 1_{0}), L_{\Lambda}(10 \dots 1_{7})$			

tightoning torgue							
tightening torque	with screw-type terminals		0.8	1.2 N·m			
				1.2 N·m			
	auxiliary contacts with screw-type terminals			1.2 N·m			
	ign of screwdriver shaft			eter 5 to 6 mm			
size of the screwdrive	-		Pozid	riv size 2			
-	f the connection screw						
 for main contacts 			M3				
 of the auxiliary ar 	nd control contacts		M3				
Safety related data							
product function suitable	e for safety function		Yes				
suitability for use							
 safety-related sw 	itching on		No	No			
 safety-related sw 	safety-related switching OFF		Yes				
service life maximum			10 a				
test wear-related serv	test wear-related service life necessary						
proportion of dangero	us failures						
	rate according to SN 319	20	40 %				
	d rate according to SN 319		50 %				
	emand rate according to		5 000				
	ow demand rate according to		5000				
31920			0011				
ISO 13849							
device type according	to ISO 13849-1		3				
	ording to ISO 13849-2 n	ecessary	Yes				
IEC 61508	U	,					
safety device type acc	ording to IEC 61508-2		Туре	Δ			
T1 value			1900				
	for proof test interval or service life according to IEC		10 a				
61508							
Electrical Safety							
protection class IP on the front according to IEC 60529		IP20					
touch protection on th	touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front				
Display							
display version for swite	ching status		Hand	e			
Approvals Certificates	0						
General Product App	oval						
CE EG-Konf.		<u>Confirmation</u>	ם	UK CA	U	<u>KC</u>	
General Product Approval	Test Certificates			Marine / Shipping			
EHC	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report		ABS	BUREAU VERITAS		
Marine / Shipping				other			
Lloyd's Register uis	PRS	RINA		<u>Miscellaneous</u>	<u>Confirmation</u>	DVE VDE	
Railway		Environment					
Railway		Environment					

Special Test Certificate

Confirmation





Environmental Confirmations

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=3RV2111-4AA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2111-4AA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-4AA10

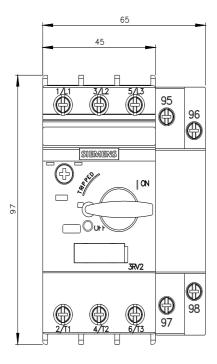
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

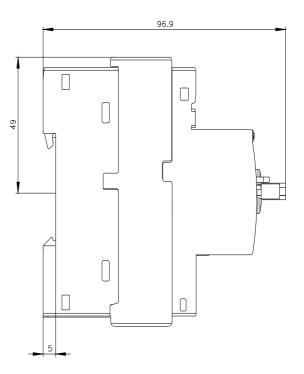
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2111-4AA10&lang=en

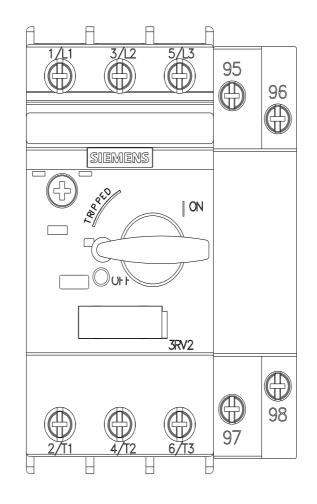
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-4AA10/char Further characteristics (e.g. electrical endurance, switching frequency)

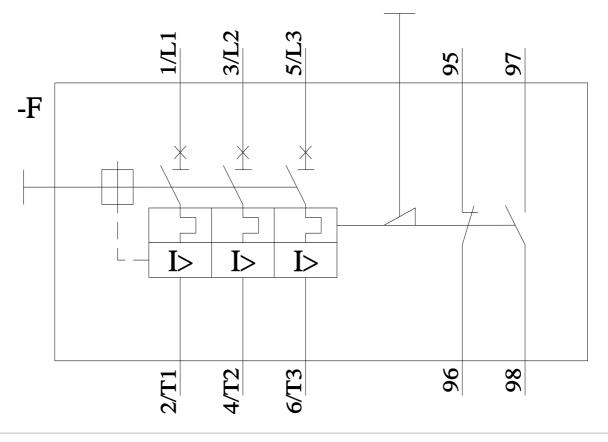
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