SIEMENS

Data sheet

3RV2011-4AA10



Circuit breaker size S00 for motor protection, CLASS 10 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			
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			
Weight	0.356 kg			
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	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
	No
ground fault detection	
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	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 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 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
	Shido to V

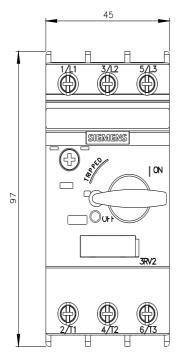
Installation/ mounting/ dimensions					
mounting position	any				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
height	97 mm				
width	45 mm				
depth	97 mm				
required spacing					
 with side-by-side mounting at the side 	0 mm				
 for grounded parts 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 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)				
 for 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					
product function suitable for safety function	Yes				
suitability for use					
	A.1				
 safety-related switching on 	No				
 safety-related switching on safety-related switching OFF 	Yes				
safety-related switching OFF	Yes				
safety-related switching OFF service life maximum	Yes 10 a				

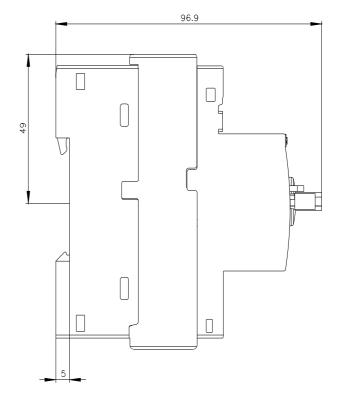
	rate according to SN 37		50 %				
	B10 value with high demand rate according to SN 31920			5 000 50 FIT			
failure rate [FIT] with low demand rate according to SN 31920							
ISO 13849							
device type according to ISO 13849-1			3				
overdimensioning according to ISO 13849-2 necessary IEC 61508		Yes					
safety device type according to IEC 61508-2			Туре	Туре А			
	T1 valuefor proof test interval or service life according to IEC		10 a				
Electrical Safety	61508						
protection class IP on	the front according to	IEC 60529	IP20				
touch protection on the	e front according to IE	C 60529	finger	-safe, for vertical contact	from the front		
Display			_				
display version for switcl	ning status		Handl	e			
Approvals Certificates			_				
General Product Appr	oval						
CE EG-Konf.	UK CA	<u>Confirmatio</u>	<u>nc</u>			KC	
General Product Approval	For use in hazardous	locations		Test Certificates		Marine / Shipping	
EHC	K ATEX	IECEX		Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping						other	
BUREAU VERITAS		Lloyd's Register us		PRS	RINA	<u>Miscellaneous</u>	
other		Railway			Environment		
<u>Confirmation</u>	UDE VDE	<u>Special Test Ce</u> <u>ate</u>	<u>ertific-</u>	<u>Confirmation</u>	EPD	Siemens EcoTech	
Environment							
Environmental Con- firmations							
Further information Information on the pac https://support.industry.s Information- and Down https://www.siemens.com	iemens.com/cs/ww/en/\ loadcenter (Catalogs,						
Industry Mall (Online ordering system) <u>https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-4AA10</u> Cax online generator							

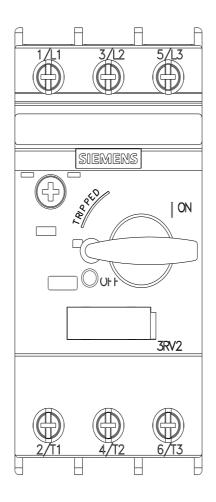
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-4AA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-4AA10&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA10/char

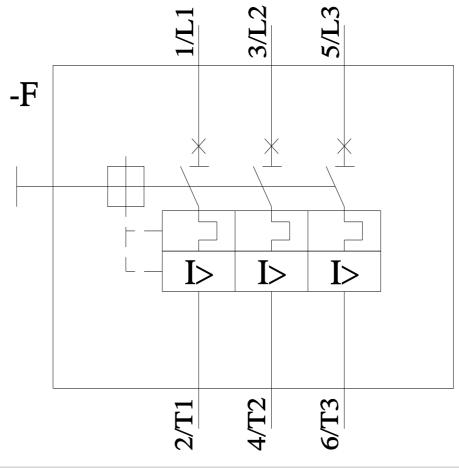
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-4AA10&objecttype=14&gridview=view1









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