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

0/15			
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		
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		

	40.4
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	
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 200 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	400.14
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
Installation/ mounting/ dimensions	

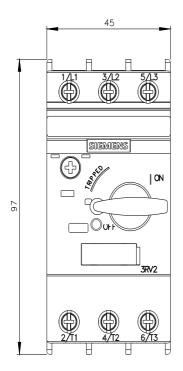
mounting position	any				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
height	97 mm				
width	45 mm				
depth	97 mm				
required spacing					
with side-by-side mounting at the side	0 mm				
 for grounded parts at 400 V 					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
• for live parts at 400 V	o min				
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
• for grounded parts at 500 V	22				
— 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 mm ²), 2x (0.75 2.5 mm ²)				
• 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					
safety-related switching on	No				
safety-related switching OFF	Yes				
service life maximum	10 a				
test wear-related service life necessary	Yes				
proportion of dangerous failures					
 with low demand rate according to SN 31920 	40 %				
 with high demand rate according to SN 31920 	50 %				

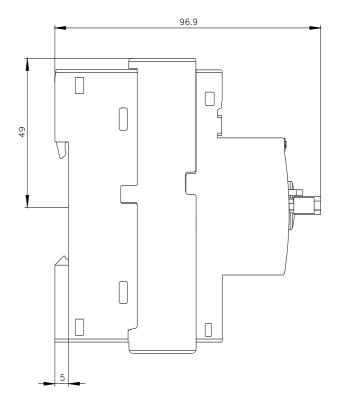
P10 value with high de	mand rate according t	0 SN 21020	5 000	1			
B10 value with high demand rate according to SN 31920		5 000 50 FIT					
failure rate [FIT] with low demand rate according to SN 31920		0011	'				
ISO 13849			_				
device type according to ISO 13849-1			3				
overdimensioning according to ISO 13849-2 necessary		Yes					
IEC 61508	IEC 61508						
safety device type acco	safety device type according to IEC 61508-2		Туре	A			
T1 value							
 for proof test interval or service life according to IEC 61508 		10 a					
Electrical Safety							
-	protection class IP on the front according to IEC 60529		IP20				
touch protection on the	e front according to IE	C 60529	finger	r-safe, for vertical contact	from the front		
Display							
display version for switch	ning status		Hand	lle			
Approvals Certificates							
General Product Appro	oval						
CE EG-Konf.	UK CA	<u>Confirmatio</u>	n			KC	
General Product Approval	For use in hazardous	locations		Test Certificates		Marine / Shipping	
EHC	K ATEX	IECEX		<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping						other	
BUREAU VERITAS		Llovds Register us		PRS	RINA	<u>Miscellaneous</u>	
other		Railway			Environment		
<u>Confirmation</u>	UDE VDE	<u>Special Test Ce</u> ate	<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	siemens.com/cs/ww/en/v iloadcenter (Catalogs, m/ic10						
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http://support.automation							

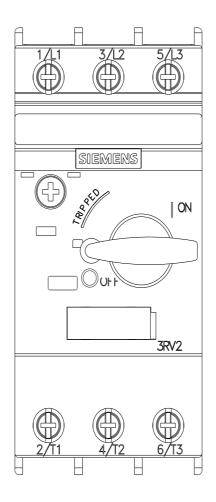
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA10

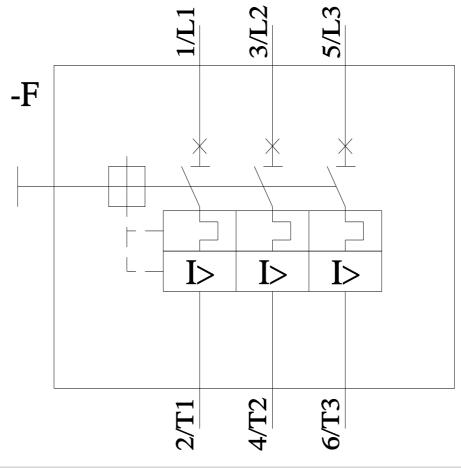
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-4AA10&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA10/char

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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