SIEMENS

Data sheet

3RV2011-0DA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 A screw terminal Standard switching capacity

4/12 6/13	
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 	5.5 W
 at AC in hot operating state per pole 	1.8 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	0.22 0.32 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	0.32 A
operational current	
 at AC-3 at 400 V rated value 	0.32 A

• at AC-3e at 400 V rated value	0.32 A			
operating power				
• at AC-3				
	0.1404			
- at 230 V rated value	0 kW			
— at 400 V rated value	0.09 kW			
— at 500 V rated value	0.1 kW			
— at 690 V rated value	0.1 kW			
• at AC-3e				
— at 230 V rated value	0 kW			
— at 400 V rated value	0.09 kW			
— at 500 V rated value	0.1 kW			
— at 690 V rated value	0.1 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 (lcu)				
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	100 kA			
operating short-circuit current breaking capacity (Ics) at AC				
• at 240 V rated value	100 kA			
at 240 V rated value at 400 V rated value	100 KA			
at 500 V rated value	100 kA			
at 690 V rated value	100 kA			
response value current of instantaneous short-circuit trip unit	4.2 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	0.32 A			
• at 600 V rated value	0.32 A			
Short-circuit protection				
product function short circuit protection	Yes			
design of the short-circuit trip	magnetic			
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			
	30 mm			
— upwards				
at the side	0 mm			
 — at the side for grounded parts at 500 V 	9 mm			

		10 a IP20 finger-safe, for vertical contact from the front Handle In Test Certificates	KC Marine / Shipping			
protection class IP on touch protection on th display version for switc Approvals Certificates General Product Appr	the front according to IEC 60529 e front according to IEC 60529 thing status	IP20 finger-safe, for vertical contact from the front Handle	KC			
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protection class IP on	the front according to IEC 60529	IP20				
Electrical Salety	val or service life according to IEC	10 a				
Electrical Cofety	val or service life according to IEC	10 a				
• for proof test inter 61508	val or convice life according to JEC	10 a				
T1 value						
IEC 61508						
31920						
	ow demand rate according to SN	50 FIT	50 FIT			
B10 value with high de	emand rate according to SN 31920	5 000				
 with high demand 	rate according to SN 31920	50 %				
 with low demand 	rate according to SN 31920	50 %				
proportion of dangero	us failures					
Safety related data						
for main contacts		M3				
	f the connection screw					
size of the screwdriver		Pozidriv size 2				
design of screwdriver		Diameter 5 to 6 mm				
	with screw-type terminals	0.8 1.2 N·m				
tightening torque		EA (10 17), EA 12				
 for AWG cables for 		2x (0.5 1.5 mm ⁻), 2x (0.75 2.5 mm ⁻) 2x (18 14), 2x 12				
	led with core end processing	2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 for main contacts — solid or strait 		$2x (0.75 - 2.5 \text{ mm}^2) 2x 4 \text{ mm}^2$				
• for main contacts						
circuit	onductor cross-sections					
	cal connectors for main current	Top and bottom				
 for main current c 		screw-type terminals				
type of electrical conn	ection					
Connections/ Terminals						
— forwards		0 mm				
— at the side		30 mm				
— backwards		0 mm				
— upwards		50 mm				
— downwards		50 mm				
 for live parts at 69 	∂0 V					
— forwards		0 mm				
— at the side		30 mm				
— backwards		50 mm 0 mm				
— upwards		50 mm				
 for grounded part downwards 		50 mm				
— at the side	+ 000 \/	9 mm				
— upwards		30 mm				
— downwards		30 mm				
 for live parts at 50 						
— at the side		9 mm				
— upwards		30 mm				
— downwards		30 mm				

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EHC	KEX ATEX	IECEx	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping					other		
BUREAU VERITAS		Lloydis Register urs	PRS	RINA	<u>Miscellaneous</u>		
other		Railway	Environment				
<u>Confirmation</u>	UDE VDE	<u>Confirmation</u>	EPD	Environmental Con- firmations			
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=3RV2011-0DA10 Cax online generator							

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0DA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA10

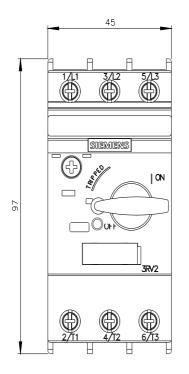
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0DA10&lang=en

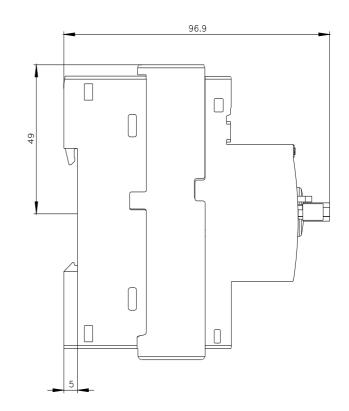
Characteristic: Tripping characteristics, I²t, Let-through current

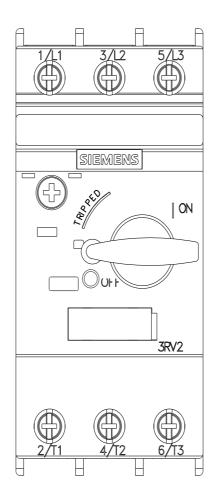
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA10/char

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

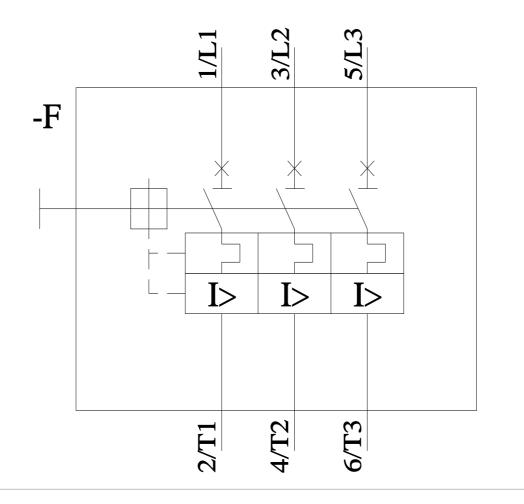
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