## SIEMENS

## Data sheet

## 3RV2011-0BA10



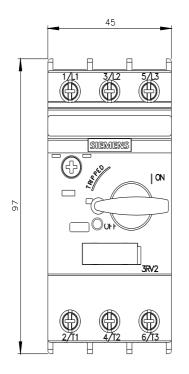
Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.14...0.2 A N-release 2.6 A screw terminal Standard switching capacity

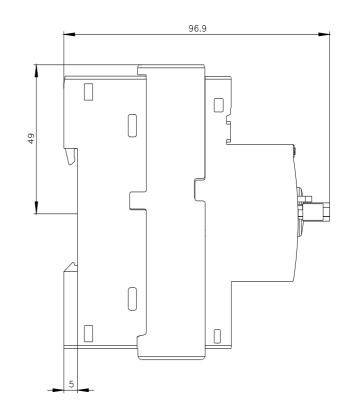
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product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	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)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	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	0.14 0.2 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

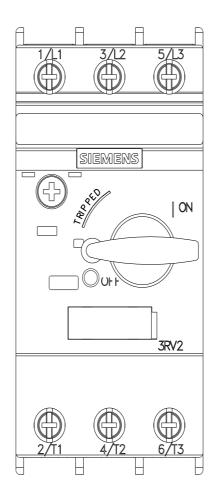
operational current rated value	0.2 A			
operational current				
• at AC-3 at 400 V rated value	0.2 A			
• at AC-3e at 400 V rated value	0.2 A			
operating power				
• at AC-3				
— at 230 V rated value	0 kW			
— at 400 V rated value	0.06 kW			
— at 500 V rated value	0.1 kW			
— at 690 V rated value	0.1 kW			
• at AC-3e				
— at 230 V rated value	0 kW			
— at 400 V rated value	0.06 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 (Icu)				
• 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 400 V rated value	100 kA			
• at 500 V rated value	100 kA			
at 690 V rated value	100 kA			
	2.6 A			
response value current of instantaneous short-circuit trip unit	2.0 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	0.2 A			
at 600 V rated value	0.2 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				
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm			
<ul> <li>for grounded parts at 400 V</li> </ul>				
— 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			
<ul> <li>for grounded parts at 500 V</li> </ul>				
— 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			
	5 mm			
for grounded parts at 690 V	50			
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	30 mm			
— forwards	0 mm			
<ul> <li>for live parts at 690 V</li> </ul>				
— 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	Top and bottom			
circuit				
type of connectable conductor cross-sections				
<ul> <li>for main contacts</li> </ul>				
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (18 14), 2x 12			
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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			
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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				
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %			
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %			
B10 value with high demand rate according to SN 31920	5 000			
failure rate [FIT] with low demand rate according to SN 31920	50 FIT			
ISO 13849				
device type according to ISO 13849-1	3			
overdimensioning according to ISO 13849-2 necessary	Yes			
IEC 61508				
safety device type according to IEC 61508-2	Туре А			
T1 value				
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	10 a			
Electrical Safety				
protection class IP on the front according to IEC 60529	IP20			

•	e front according to IE	C 60529 finger	tection on the front according to IEC 60529 finger-safe, for vertical contact from the front			
hisplay display version for switching status			le			
Approvals Certificates						
General Product Appr	oval					
	CE EG-Konf.	UK CA	<u>Confirmation</u>		KC	
General Product Ap- proval	For use in hazardous	locations	Test Certificates		Marine / Shipping	
EHC	IECEx	K ATEX	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Llovd's Register uts	PRS	RINA	<u>Miscellaneous</u>	
other		Railway		Environment		
<u>Confirmation</u>	VDE	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	EPD	Siemens EcoTech	
Environment						
Environmental Con- firmations						
Further information						
Information on the pac		i				
https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10						
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Cax online generator http://support.automatio Service&Support (Man	n.siemens.com/WW/CA) uuals, Certificates, Cha	Korder/default.aspx?lang=e		<u>0</u>		
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0BA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
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Further characteristics http://www.automation.s	s (e.g. electrical endura iemens.com/bilddb/inde	nce, switching frequency x.aspx?view=Search&mlfb	<b>y)</b> =3RV2011-0BA10&objec	ttype=14&gridview=view1		

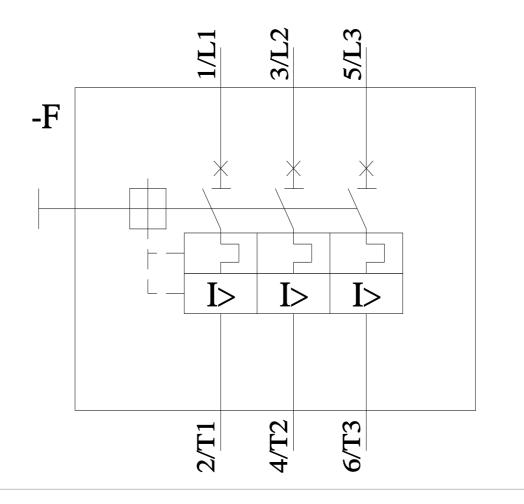






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