## SIEMENS

## Data sheet

## 3RV2011-0HA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.55...0.8 A N-release 10 A screw terminal Standard switching capacity

4/12 5/13	
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	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 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
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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	0.55 0.8 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.8 A
operational current	

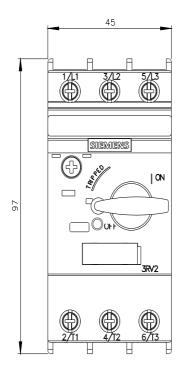
• at AC-3 at 400 V rated value	0.8 A
at AC-3e at 400 V rated value	0.8 A
operating power	
● at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.3 kW
— at 690 V rated value	0.4 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.3 kW
— at 690 V rated value	0.4 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
	Tiermai
<ul> <li>maximum short-circuit current breaking capacity (Icu)</li> <li>at AC at 240 V rated value</li> </ul>	100 kA
	100 kA
at AC at 400 V rated value	
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
response value current of instantaneous short-circuit trip unit	10 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	0.8 A
• at 600 V rated value	0.8 A
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 690 V	gL/gG 6 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
<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	
<ul> <li>Ion hve parts at 400 v</li> <li>— downwards</li> </ul>	30 mm
	JU IIIII

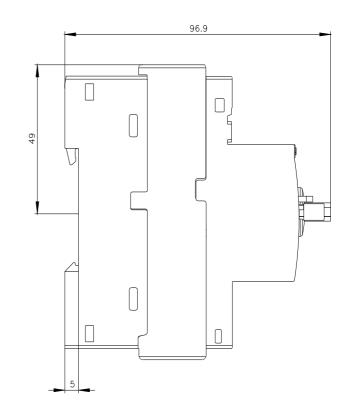
— upwards	30 mm			
— at the side	9 mm			
<ul> <li>for grounded parts at 500 V</li> </ul>				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for live parts at 500 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for grounded parts at 690 V	3.1111			
- downwards	50 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				
<ul> <li>for main current circuit</li> </ul>	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 <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
for AWG cables for main contacts	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				
B10 value	F 000			
with high demand rate according to SN 31920	5 000			
proportion of dangerous failures	50.9/			
with low demand rate according to SN 31920     with high demand rate according to SN 24020	50 %			
with high demand rate according to SN 31920	50 %			
failure rate [FIT]				
with low demand rate according to SN 31920	50 FIT			
T1 value for proof test interval or service life according to IEC 61508	10 a			
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
display version for switching status	Handle			
Certificates/ approvals				
General Product Approval	For use in hazardous locations			

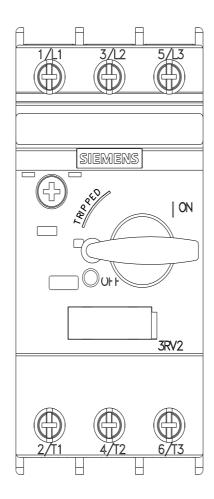
**Test Certificates** 

Marine / Shipping

CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS
Marine / Shipping				other	
	Lloyd's Register urs	PRS	RINA	<u>Confirmation</u>	
Railway					
https://press.siemens. Siemens is working Please contact your lo EAC relevant market Information on the p		e/siemens-wind-down-ruse rent EAC certificates. status of validity of the EAG EAEU member states Rus	C certification if you inter	nd to import or offer to sup	ply these products to an
Information- and Do https://www.siemens. Industry Mall (Online https://mall.industry.si Cax online generato http://support.automal Service&Support (M	e ordering system) emens.com/mall/en/en/Cat r tion.siemens.com/WW/CAX anuals, Certificates, Char	Brochures,) alog/product?mlfb=3RV20 (order/default.aspx?lang=e acteristics, FAQs,)		<u>10</u>	
Image database (pro	y.siemens.com/cs/ww/en/p duct images, 2D dimension.siemens.com/bilddb/cax_d	on drawings, 3D models		ns, EPLAN macros,)	
			The troondaries of the		
	bing characteristics, l <sup>2</sup> t, Le y.siemens.com/cs/ww/en/p		<u></u>		

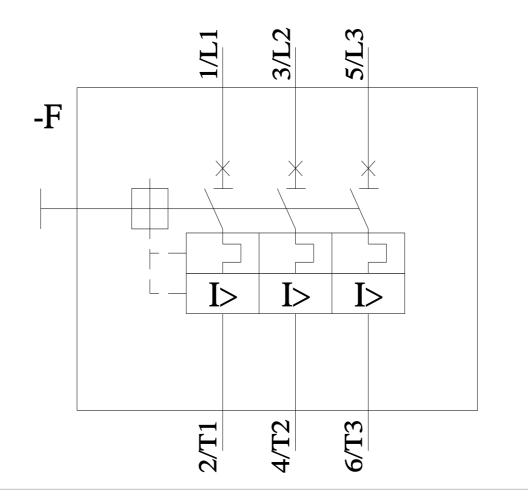






8/16/2023

Subject to change without notice © Copyright Siemens



last modified:

11/21/2022 🖸

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: <u>3RV20110HA10</u>