## 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

4/17 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	
<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
<ul> <li>during storage</li> </ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-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
<ul> <li>at AC-3e rated value maximum</li> </ul>	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	A 4 114
— 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	0.4 1000
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value — at 690 V rated value	0.3 kW 0.4 kW
	0.4 KVV
<ul> <li>operating frequency</li> <li>at AC-3 maximum</li> </ul>	15 1/h
• at AC-3e maximum	15 1/h
	15 1/11
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	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (lcu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	100 kA
operating short-circuit current breaking capacity (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
<ul> <li>at 500 V rated value</li> </ul>	100 kA
• at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip	10 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	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	
<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

General Product Approval		For use in hazard- ous locations			
Certificates/ approvals					
touch protection on the front according to IEC 60529 display version for switching status	finger-safe, for vertical contact from the front Handle				
protection class IP on the front according to IEC 60529	IP20				
<ul> <li>with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> </ul>	50 FIT 10 y				
failure rate [FIT]					
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>	50 % 50 %				
<ul> <li>B10 value</li> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> </ul>	5 000				
Safety related data					
for main contacts	M3				
design of the thread of the connection screw					
size of the screwdriver tip	Pozidriv size 2				
<ul> <li>for main contacts with screw-type terminals</li> <li>design of screwdriver shaft</li> </ul>	0.8 1.2 N·m Diameter 5 to 6 mm				
tightening torque	0.9. 1.2.N.m				
at AWG cables for main contacts	2x (18 14), 2x 12				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²				
for main contacts					
circuit type of connectable conductor cross-sections					
arrangement of electrical connectors for main current	Top and bottom				
for main current circuit	screw-type terminals				
type of electrical connection					
Connections/ Terminals					
— forwards	0 mm				
— backwards — at the side	0 mm 30 mm				
— upwards	50 mm				
— downwards	50 mm				
• for live parts at 690 V					
— forwards	0 mm				
— at the side	30 mm				
— upwards — backwards	0 mm				
— downwards	50 mm 50 mm				
<ul> <li>for grounded parts at 690 V</li> </ul>					
— at the side	9 mm				
— upwards	30 mm				
- downwards	30 mm				
<ul><li>— at the side</li><li>● for live parts at 500 V</li></ul>	911111				
— upwards	30 mm 9 mm				
— downwards	30 mm				
<ul> <li>for grounded parts at 500 V</li> </ul>					
— at the side	9 mm				
— downwards — upwards	30 mm 30 mm				
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For use in hazard- ous locations	Declaration of Conformity		Test Certificates		Marine / Shipping		
K ATEX	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS		
Marine / Shipping							
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	RMRS		
other		Railway					
<u>Confirmation</u>	UDE VDE	<u>Confirmation</u>	Vibration and Shock				
Further information							
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=3RV2011-0HA10							

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0HA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0HA10

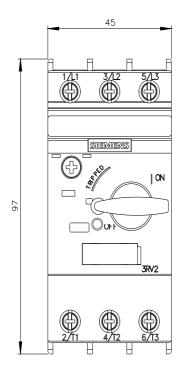
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0HA10&lang=en

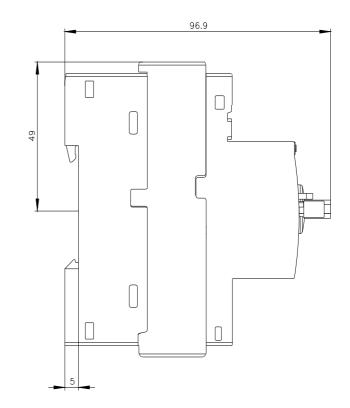
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

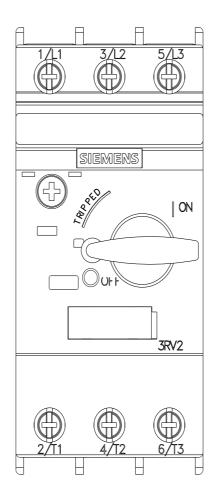
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0HA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0HA10&objecttype=14&gridview=view1

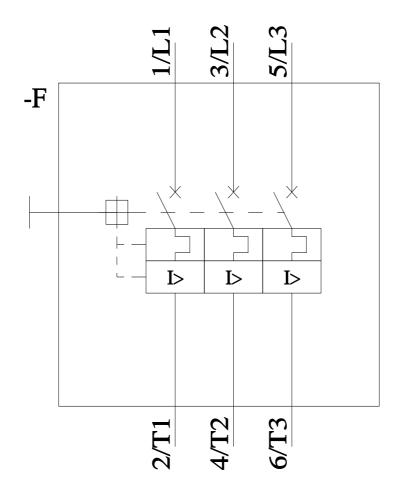






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