## SIEMENS

## Data sheet

## 3RV2011-0FA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.35...0.5 A N-release 6.5 A screw terminal Standard switching capacity

2/11 4/72 6/73	
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
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
SVHC substance name	Blei - 7439-92-1
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
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	0.35 0.5 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	0.5 A

operational current         0.5 A           • et AC-3e at 400 V rated value         0.5 A           operating power         • et AC-3           • et AC-3         • et AC-3           - et 230 V rated value         0.1 kW           - et 230 V rated value         0.1 kW           - et 400 V rated value         0.1 kW           - et 400 V rated value         0.2 kW           - et 600 V rated value         0.1 kW           - et 600 V rated value         0.1 kW           - et 400 V rated value         0.2 kW           - et 400 V rated value         0.1 kW           - et 400 V rated value         0.1 kW           - et 400 V rated value         0.1 kW           - et 400 V rated value         0.2 kW           operating frequency         0           - et AC-3 maximum         15 t/h           - et AC-3 maximum         15 t/h           - et AC-3 for auxiliary contacts         0           number of NO contacts for auxiliary contacts         0           number of NO contacts for auxiliary contacts         0           runder of NO contacts for auxiliary contacts         0           oproduct function         Yes           • product function         Yes           • product function																																							
• at AC-3e at 400 V rated value     0.5 Å       operating power     0.1 kW       - at 230 V rated value     0.1 kW       - at 400 V rated value     0.1 kW       - at 600 V rated value     0.2 kW       - at 600 V rated value     0.2 kW       - at 600 V rated value     0.1 kW       - at 600 V rated value     0.2 kW       operating frequency     0.1 kW       - at 600 V rated value     0.2 kW       operating frequency     0.1 kW       - at 800 V rated value     0.2 kW       operating frequency     0.1 kW       - at 800 V rated value     0.1 kM       - at 800 V rated value     0.1 kW       - at 800 V rated value     0.1 kM       - at 800 V rated value     0.1 kM       - at AC-3 maximum     15 1/h       - at AC-3 fraxiliary contacts     0       number of NC contacts for auxiliary contacts     0       produet function     0																																							
operating power <ul> <li>et AC-3</li> <li></li></ul>																																							
- at 500 V rated value       0.1 kW         - at 500 V rated value       0.2 kW         • at AC-3e       - at 230 V rated value       0.1 kW         - at 400 V rated value       0.1 kW         - at 500 V rated value       0.1 kW         - at 600 V rated value       0.2 kW         operating frequency       - at 600 V rated value         • at AC-3 maximum       15 1/h         • at AC-3 maximum       15 1/h         • at AC-3 maximum       15 1/h         • at AC-3 maximum       0         number of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       0         number of CO contacts for auxiliary contacts       0         optotactive and monitoring functions       0         product function       Yes         • trip class       CLASS 10         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu)       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 500 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 400 V rated value       100 kA																																							
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operating frequency <ul> <li>at AC-3 maximum</li> <li>15 1/h</li> <li>at AC-3e maximum</li> <li>15 1/h</li> </ul> <ul> <li>Auxiliary circuit</li> </ul> number of NC contacts for auxiliary contacts <li>0</li> <ul> <li>number of NO contacts for auxiliary contacts</li> <li>0</li> </ul> number of CO contacts for auxiliary contacts <ul> <li>0</li> </ul> Protective and monitoring functions             product function <ul> <li>ground fault detection</li> <li>yes</li> <li>trip class</li> <li>CLASS 10</li> <li>design of the overload release</li> <li>thermal</li> </ul> maximum short-circuit current breaking capacity (Icu) <ul> <li>at AC at 20 V rated value</li> <li>100 kA</li> <li>at AC at 500 V rated value</li> <li>100 kA</li> <li>at AC at 500 V rated value</li> <li>100 kA</li> <li>at AC at 690 V rated value</li> <li>100 kA</li> <li>at AC at 400 V rated value</li> <li>100 kA</li> <li>at AC at 400 V rated value</li> <li>100 kA</li> <li>at AC at 400 V rated value</li> <li>100 kA</li> <li>at 600 V rated value</li></ul>																																							
• at AC-3 maximum       15 1/h         • at AC-3e maximum       15 1/h         Auxiliary circuit       0         number of NC contacts for auxiliary contacts       0         number of CO contacts for auxiliary contacts       0         number of CO contacts for auxiliary contacts       0         Protective and monitoring functions       0         product function       ves         • ground fault 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 500 V rated value       100 kA         • at AC at 690 V rated value       100 kA         • at AC at 690 V rated value       100 kA         • at AC at 690 V rated value       100 kA         • at AC at 690 V rated value       100 kA         • at AO V rated value       100 kA         • at 400 V rated value       100 kA         • at 600 V rated value       100 kA         • at 600 V rated value																																							
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rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC       • at 240 V rated value         • 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         • UL/CSA ratings       6.5 A</td></tr><tr><td>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       6.5 A         UL/CSA ratings       100 kA</td></tr><tr><td></td></tr><tr><td>at 400 V rated value     at 500 V rated value     at 690 V rated value     at 690 V rated value     100 kA     100 kA</td></tr><tr><td>• at 500 V rated value         100 kA           • at 690 V rated value         100 kA           response value current of instantaneous short-circuit trip unit         6.5 A           UL/CSA ratings         100 kA</td></tr><tr><td>at 690 V rated value     100 kA     response value current of instantaneous short-circuit trip unit     6.5 A     UL/CSA ratings</td></tr><tr><td>response value current of instantaneous short-circuit trip unit       6.5 A         UL/CSA ratings       6.5 A</td></tr><tr><td>UL/CSA ratings</td></tr><tr><td></td></tr><tr><td>full-load current (FLA) for 3-phase AC motor</td></tr><tr><td></td></tr><tr><td>• at 480 V rated value 0.5 A</td></tr><tr><td>• at 600 V rated value 0.5 A</td></tr><tr><td>Short-circuit protection</td></tr><tr><td>product function short circuit protection Yes</td></tr><tr><td>design of the short-circuit trip magnetic</td></tr><tr><td>design of the fuse link for IT network for short-circuit</td></tr><tr><td>protection of the main circuit</td></tr><tr><td>• at 690 V gL/gG 4 A</td></tr><tr><td>Installation/ mounting/ dimensions</td></tr><tr><td>mounting position any</td></tr><tr><td>fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</td></tr><tr><td>height 97 mm</td></tr><tr><td>width 45 mm</td></tr><tr><td>depth 97 mm</td></tr><tr><td>required spacing</td></tr><tr><td>• with side-by-side mounting at the side 0 mm</td></tr><tr><td>for grounded parts at 400 V</td></tr><tr><td>— downwards 30 mm</td></tr><tr><td>— upwards 30 mm</td></tr><tr><td></td></tr><tr><td><ul> <li>— at the side</li> <li>9 mm</li> <li>• for live parts at 400 V</li> </ul></td></tr></tr>	• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA	trip classCLASS 10design of 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value current of instantaneous short-circuit trip unit     6.5 A     UL/CSA ratings	response value current of instantaneous short-circuit trip unit       6.5 A         UL/CSA ratings       6.5 A	UL/CSA ratings		full-load current (FLA) for 3-phase AC motor		• at 480 V rated value 0.5 A	• at 600 V rated value 0.5 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 4 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		<ul> <li>— at the side</li> <li>9 mm</li> <li>• for live parts at 400 V</li> </ul>
• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA	trip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 690 V rated value100 kA	design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)internal• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 500 V rated value100 kA• at 690 V rated value10	maximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 690 V rated value100 kA	• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 690 V rated value100 kA	• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kAoperating short-circuit current breaking capacity (Ics) at AC•• at 240 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 690 V rated value100 kA	• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kAoperating short-circuit current breaking capacity (Ics) at AC•• at 240 V rated value100 kA• at 400 V rated value100 kA• at 500 V rated value100 kA• at 690 V rated value100 kA	• at AC at 690 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC       • at 240 V rated value         • 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         • UL/CSA ratings       6.5 A	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       6.5 A         UL/CSA ratings       100 kA		at 400 V rated value     at 500 V rated value     at 690 V rated value     at 690 V rated value     100 kA     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         6.5 A           UL/CSA ratings         100 kA	at 690 V rated value     100 kA     response value current of instantaneous short-circuit trip unit     6.5 A     UL/CSA ratings	response value current of instantaneous short-circuit trip unit       6.5 A         UL/CSA ratings       6.5 A	UL/CSA ratings		full-load current (FLA) for 3-phase AC motor		• at 480 V rated value 0.5 A	• at 600 V rated value 0.5 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 4 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		<ul> <li>— at the side</li> <li>9 mm</li> <li>• for live parts at 400 V</li> </ul>	
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• at AC at 690 V rated value       100 kA         operating short-circuit current breaking capacity (Ics) at AC       • at 240 V rated value         • 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         • UL/CSA ratings       6.5 A																																							
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       6.5 A         UL/CSA ratings       100 kA																																							
at 400 V rated value     at 500 V rated value     at 690 V rated value     at 690 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         6.5 A           UL/CSA ratings         100 kA																																							
at 690 V rated value     100 kA     response value current of instantaneous short-circuit trip unit     6.5 A     UL/CSA ratings																																							
response value current of instantaneous short-circuit trip unit       6.5 A         UL/CSA ratings       6.5 A																																							
UL/CSA ratings																																							
full-load current (FLA) for 3-phase AC motor																																							
• at 480 V rated value 0.5 A																																							
• at 600 V rated value 0.5 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 4 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																																							
<ul> <li>— at the side</li> <li>9 mm</li> <li>• for live parts at 400 V</li> </ul>																																							

— 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				
<ul> <li>for live parts at 500 V</li> </ul>					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
<ul> <li>for grounded parts at 690 V</li> </ul>					
— 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				
onnections/ 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					
<ul> <li>for main contacts</li> </ul>	M3				
afety related data					
proportion of dangerous failures					
with low demand rate according to SN 31920	50 %				
with high demand rate according to SN 31920	50 %				
failure rate [FIT] with low demand rate according to SN 31920	50 FIT				
B10 value with high demand rate according to SN 31920	5 000				
IEC 61508					
T1 value for proof test interval or service life according to IEC 61508	10 a				
Electrical Safety					
	IP20				
protection class IP on the front according to IEC 60529	IP20 finger-safe, for vertical contact from the front				
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529					
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status pprovals Certificates	finger-safe, for vertical contact from the front				









General Product Ap- proval	For use in hazardous locations		Test Certificates		Marine / Shipping			
EHC	K ATEX	IECEX	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS			
Marine / Shipping					other			
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	<u>Miscellaneous</u>			
other		Railway	Environment					
<u>Confirmation</u>	UDE VDE	<u>Confirmation</u>	EPD Typ II/III (with life cylce assessment)					
Further information								
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). 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=3RV2011-0FA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0FA10

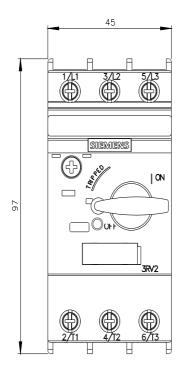
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

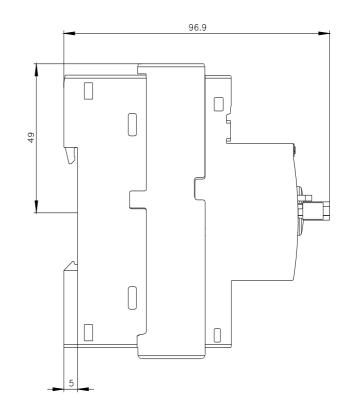
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0FA10

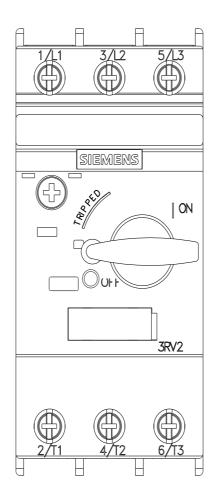
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0FA10&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0FA10/char

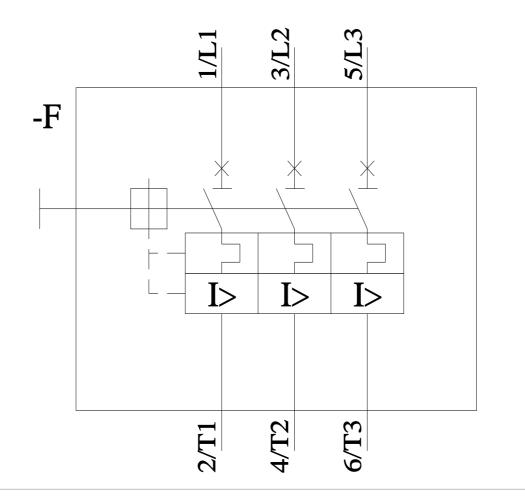
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0FA10&objecttype=14&gridview=view1







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