## 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

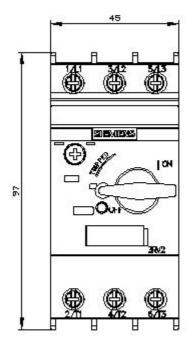
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.5 W
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
maximum permissible voltage for safe isolation in networks with grounded star point	
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
of auxiliary contacts typical	100 000
electrical endurance (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
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
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	

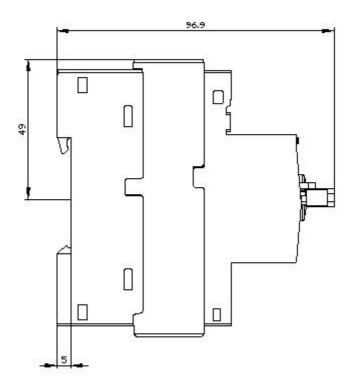
number of polos for main surrent sireuit	2
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	0.35 0.5 A
operating voltage	
rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.5 A
operational current at AC-3 at 400 V rated value	0.5 A
operating power at AC-3	0.077
at 230 V rated value	0.06 kW
at 400 V rated value	0.12 kW
at 500 V rated value	0.12 kW
at 690 V rated value	0.18 kW
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
	0
number of NC contacts for auxiliary contacts 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
breaking capacity operating short-circuit current (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
breaking capacity maximum short-circuit current (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
response value current of instantaneous short-circuit trip unit	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 standard mounting rail
-	according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm

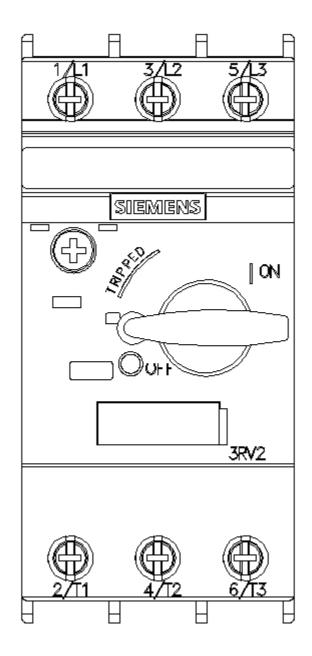
— at the side	9 mm	
<ul> <li>for live parts at 400 V</li> </ul>		
— downwards	30 mm	
— upwards	30 mm	
— at the side	9 mm	
<ul> <li>for grounded parts at 500 V</li> </ul>		
— downwards	30 mm	
— upwards	30 mm	
— at the side	9 mm	
<ul> <li>for live parts at 500 V</li> </ul>		
— downwards	30 mm	
— upwards	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	
Connections/ Terminals		
product component removable terminal for auxiliary and control circuit	No	
type of electrical connection		
for main current circuit	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	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )	
at 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 2	
design of the thread of the connection screw		
• for main contacts	M3	
Safety related data		
B10 value		
with high demand rate acc. to SN 31920	5 000	
proportion of dangerous failures		
with low demand rate acc. to SN 31920	50 %	
with high demand rate acc. to SN 31920	50 %	
failure rate [FIT]		
with low demand rate acc. to SN 31920	50 FIT	
T1 value for proof test interval or service life acc. to	10 y	
IEC 61508		
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. 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 hazard-

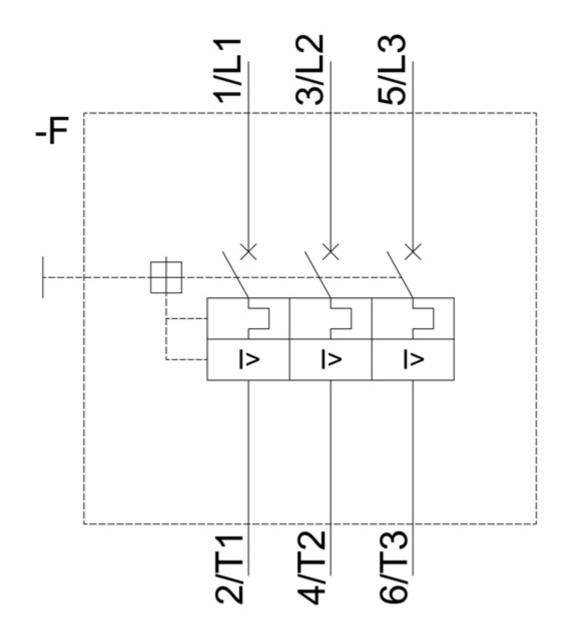
					ous locations
			<u>KC</u>	EHC	IECEx IECEx
For use in hazard- ous locations	Declaration of Con	formity	Test Certificates		Marine / Shipping
K ATEX	<u>Miscellaneous</u>	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS
Marine / Shipping					
B U REAU VERITAS	Hoyd's Register uis	PRS	RINA	RMRS	Charles Annual Control of Control
other	Railway				
Confirmation	Confirmation	Vibration and Shock			

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	aracteristic: Tripping characteristics, I²t, Let-through current s://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0FA10/char
	ther characteristics (e.g. electrical endurance, switching frequency) ://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0FA10&objecttype=14&gridview=view1









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