SIEMENS

Data sheet

3RV2011-0FA15



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 with transverse auxiliary switches 1 NO+1 NC

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				
 at AC in hot operating state 	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				
 between main and auxiliary circuit 	400 V			
 between main and auxiliary circuit 	400 V			
shock resistance acc. to IEC 60068-2-27	25g / 11 ms			
mechanical service life (switching cycles)				
 of the main contacts typical 	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			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
 ambient temperature during operation 	-20 +60 °C			
 ambient temperature during storage 	-50 +80 °C			
 ambient temperature during transport 	-50 +80 °C			
temperature compensation	-20 +60 °C			
relative humidity during operation	10 95 %			
Main circuit				
number of poles for main current circuit	3			
adjustable current response value current of the	0.35 0.5 A			



current dependent overlead release	
current-dependent overload release	
operating voltage rated value	690 V
 operating voltage 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	
• at 230 V rated value	60 W
 at 400 V rated value 	120 W
• at 500 V rated value	120 W
at 690 V rated value	180 W
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
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	
at 240 V rated value	100 kA
at 200 V rated value	100 kA
at 500 V rated value	100 kA
at 690 V rated value	100 kA
breaking capacity maximum short-circuit current (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
response value current of instantaneous short-circuit trip	6.5 A
unit	
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
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 690 V	gL/gG 4 A



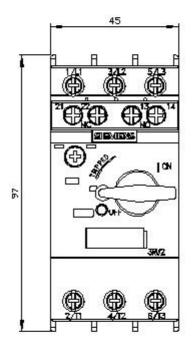
y rew and snap-on mounting onto 35 mm standard mounting rail cording to DIN EN 60715 mm
cording to DIN EN 60715
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rew-type terminals
rew-type terminals
p and bottom
(0,75 2,5 mm²), 2x 4 mm²
(0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
(18 14), 2x 12
(0,5 1,5 mm²), 2x (0,75 2,5 mm²)
(0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
(20 16), 2x (18 14)
3 1.2 N·m
) 1.2 N III
3 1.2 N·m

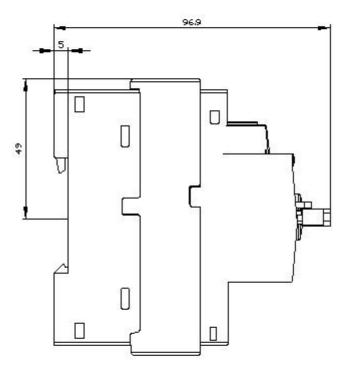
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size of the screwdriver tip			Pozidriv 2			
design of the thread of the connection screw			<u>_</u>			
for main conta			M3			
	and control contacts	M	3			
Safety related data						
B10 value						
 with high demand rate acc. to SN 31920 			000			
proportion of dangerous failures						
 with low demand rate acc. to SN 31920) %			
 with high demand rate acc. to SN 31920) %			
failure rate [FIT]						
 with low demand rate acc. to SN 31920 			50 FIT			
T1 value for proof test interval or service life acc. to IEC 61508		e life acc. to 10	10 у			
protection class IP	on the front acc. to	EC 60529 IP.	IP20			
touch protection or	n the front acc. to IE	C 60529 fin	finger-safe, for vertical contact from the front			
display version for s	witching status	Ha	andle			
Certificates/ approva	ls					
General Product A	pproval				For use in hazardous locations	
SF CM		(UL) III	KC	EAC	KEX ATEX	
For use in hazardous locations	Declaration of Co	onformity	Test Certificates		Marine / Shipping	
IECEx	CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Special Test</u> <u>Certificate</u>	ABS	
Marine / Shipping						
BUREAU VERITAS	Lloyd's Register uis	PRS	RINA	RMRS RMRS	DNV-GL DMVLCDMAP	
other		Railway				
<u>Confirmation</u>		Vibration and Shoc	k Confirmation			
Further information Information- and Do https://www.siemens	ownloadcenter (Cata	logs, Brochures,)				
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-0FA15						
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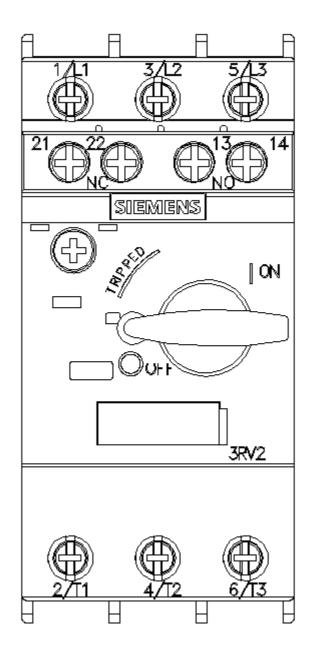


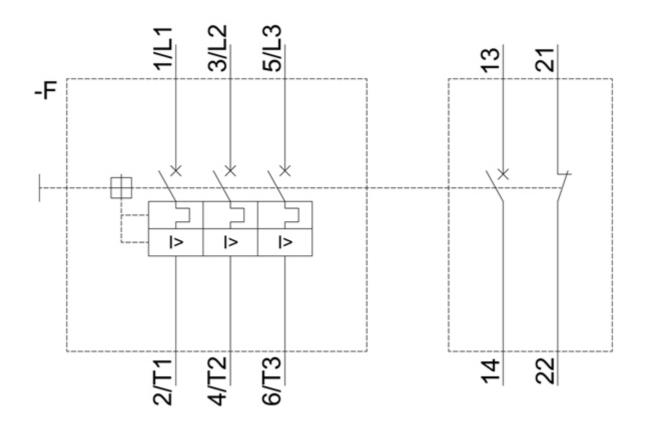
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0FA15 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0FA15&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0FA15/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0FA15&objecttype=14&gridview=view1









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