SIEMENS

Data sheet

3RV2011-1HA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 5.5...8 A N-release 104 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

4/12 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			
 at AC in hot operating state 	9.25 W		
 at AC in hot operating state per pole 	3.1 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)			
 of the main contacts typical 	100 000		
 of auxiliary contacts typical 	100 000		
electrical endurance (operating cycles) typical	100 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
Weight	0.366 kg		
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		
relative humidity during operation	10 95 %		
Environmental footprint			
global warming potential [CO2 eq] total	74.698 kg		
global warming potential [CO2 eq] during manufacturing	1.98 kg		
global warming potential [CO2 eq] during sales	0.134 kg		
global warming potential [CO2 eq] during operation	72.7 kg		
global warming potential [CO2 eq] after end of life	-0.116 kg		
Siemens Eco Profile (SEP)	Siemens EcoTech		
Main circuit			
number of poles for main current circuit	3		

adjustable current response value current of the current-	5.5 8 A
dependent overload release	
type of voltage for main current circuit	AC/DC
operating voltage	
rated value	20 690 V
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	8 A
operational current	
• at AC-3 at 400 V rated value	8 A
• at AC-3e at 400 V rated value	8 A
operating power	
• at AC-3	4.5100
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
type of voltage for auxiliary and control circuit	AC/DC
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1 0
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15 • at 24 V	2 A
• at 24 V	0.5 A
• at 120 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	0.5 A
• at 24 V	1 A
• at 2+ v	0.15 A
Protective and monitoring functions	0.13 A
product function	
ground fault detection	No
phase failure 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 240 V rated value	100 kA
at AC at 500 V rated value	42 kA
at AC at 690 V rated value	42 NA 6 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
at 240 V rated value	100 kA
at 500 V rated value	42 kA
at 690 V rated value	42 NA 4 kA
response value current of instantaneous short-circuit trip unit	104 A
. sepense value canon of molantaneous short-onour trip affit	
UL/CSA ratings	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
	8 A 8 A

yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	0.33 hp			
— at 230 V rated value	1 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	2 hp			
— at 220/230 V rated value	2 hp			
— at 460/480 V rated value	5 hp			
— at 575/600 V rated value	5 hp			
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 Ik < 400 A)			
design of the fuse link for IT network for short-circuit protection of the main circuit				
• at 400 V	gL/gG 50 A			
• at 500 V	gL/gG 40 A			
• at 690 V	gL/gG 35 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			
— at the side	9 mm			
• for live parts at 400 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for grounded parts at 500 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for live parts at 500 V				
- downwards	30 mm			
— upwards	30 mm			
— upwards — at the side	9 mm			
	3 11111			
 for grounded parts at 690 V downwards 	50 mm			
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
- at the side	30 mm			
— forwards				
• for live parts at 690 V	0 mm			
— downwards	50 mm			
— upwards	50 mm 50 mm			
— upwards — backwards	50 mm 50 mm 0 mm			
— upwards — backwards — at the side	50 mm 50 mm 0 mm 30 mm			
— upwards — backwards — at the side — forwards	50 mm 50 mm 0 mm			
— upwards — backwards — at the side	50 mm 50 mm 0 mm 30 mm			
— upwards — backwards — at the side — forwards	50 mm 50 mm 0 mm 30 mm			
 upwards backwards at the side forwards Connections/ Terminals	50 mm 50 mm 0 mm 30 mm			

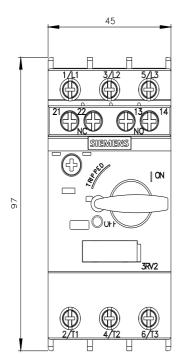
arrangement of electrical connectors for main current circuit	Top and bottom			
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²			
 — finely stranded with core end processing 				
for AWG cables for main contacts	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
	2x (18 14), 2x 12			
type of connectable conductor cross-sections				
for auxiliary contacts				
— solid or stranded	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)			
tightening torque				
 for main contacts with screw-type terminals 	0.8 1.2 N·m			
 for auxiliary contacts with screw-type terminals 	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			
 of the auxiliary and control contacts 	M3			
Safety related data				
product function suitable for safety function	Yes			
suitability for use				
 safety-related switching on 	No			
 safety-related switching OFF 	Yes			
service life maximum	10 a			
test wear-related service life necessary	Yes			
proportion of dangerous failures				
with low demand rate according to SN 31920	40 %			
with high demand rate according to SN 31920	40 % 50 %			
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B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	5 000 50 FIT			
ISO 13849				
device type according to ISO 13849-1	3			
overdimensioning according to ISO 13849-2 necessary	Yes			
IEC 61508				
	Time A			
safety device type according to IEC 61508-2	Туре А			
 • for proof test interval or service life according to IEC 	10 a			
61508				
Electrical Safety	1000			
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				
display version for switching status	Handle			
Approvals Certificates				
General Product Approval				
	EAC			
General Product Ap-	UL Test Certificates Marine / Shipping			
proval	warne / on pping			
BIS CRS	Type Test Certific- ates/Test Report Special Test Certific- ate Openation ABS ABS			

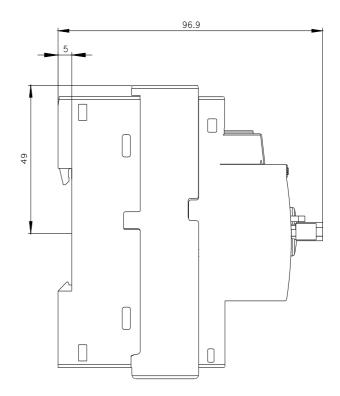
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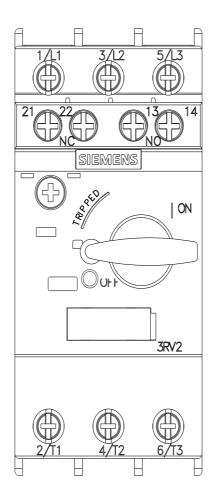
Marine / Shipping					other		
BUREAU VERITAS		Lloyd's Kegister uis	PRS	RINA	Miscellaneous		
other		Railway		Environment			
<u>Confirmation</u>	DE VDE	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	EPD	Siemens EcoTech		
Environment Environmental Con- firmations							
urther information							
Information on the pac		/view/109813875					
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=3RV2011-1HA15 Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1HA15 Service&Support (Manuals, Certificates, Characteristics, FAQs,)							
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1HA15 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1HA15⟨=en							
Characteristic: Tripping		Let-through current /ps/3RV2011-1HA15/char					

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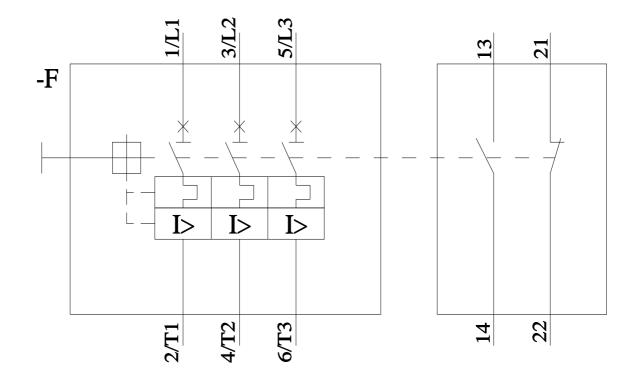
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1HA15&objecttype=14&gridview=view1







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