SIEMENS

Data sheet

3RV2011-1GA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 4.5...6.3 A N-release 82 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 	7.25 W
 at AC in hot operating state per pole 	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)	
 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
SVHC substance name	Lead - 7439-92-1
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 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	4.5 6.3 A
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	6.3 A
operational current	
• at AC-3 at 400 V rated value	6.3 A

• at AC-3e at 400 V rated value	6.3 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	2.2 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	2.2 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 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
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
maximum short-circuit current breaking capacity (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	6 kA
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	4 kA
response value current of instantaneous short-circuit trip unit	82 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	6.3 A
• at 600 V rated value	6.3 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.5 hp
for 3-phase AC motor	
— at 200/208 V rated value	1 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 hp
	E ha
— at 575/600 V rated value	5 hp
	C300 / R300

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	-1 /- 0 50 A		
• at 400 V	gL/gG 50 A		
• at 500 V	gL/gG 40 A		
• at 690 V	gL/gG 35 A		
nstallation/ 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		
— at the side	9 mm		
 for grounded parts at 690 V 			
— 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			
type of electrical connection			
for main current circuit	screw-type terminals		
for auxiliary and control circuit	screw-type terminals		
arrangement of electrical connectors for main current	Top and bottom		
circuit			
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	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
for AWG cables for main contacts	2x (18 14), 2x 12		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		

for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type termina for auxiliary contacts with screw-type term design of screwdriver shaft		2x (20 16), 2x (18 14)			
 for main contacts with screw-type termina for auxiliary contacts with screw-type term 	ıls				
 for auxiliary contacts with screw-type term 	115	0.0 1.2 Nm			
		0.8 1.2 N·m			
design of screwdriver shaft		0.8 1.2 N·m			
		Diameter 5 to 6 mm			
size of the screwdriver tip		Pozidriv size 2			
design of the thread of the connection screw	1				
 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 31	920	40 %			
with high demand rate according to SN 3		50 %			
B10 value with high demand rate according to Sit 3		5 000			
failure rate [FIT] with low demand rate according					
31920		50 FIT			
ISO 13849					
device type according to ISO 13849-1		3			
overdimensioning according to ISO 13849-2		yes			
IEC 61508					
safety device type according to IEC 61508-2					
T1 value		Туре А			
for proof test interval or service life accord	ding to IEC	10.2			
 for proof test interval of service life accord 61508 		10 a			
Electrical Safety					
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	.0 00020	inger sale, for vertical contact			
		Llandla			
display version for switching status	Handle				
Approvals Certificates					
General Product Approval					
CE UK EG-Konf. UK		<u>Confirmation</u>		KC	
General Product Approval	s locations	Test Certificates		Marine / Shipping	
	K ATEX	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping				other	
	Houde	6		Miscellaneous	
BUREAU VERITAS		PRS	RINA		

Confirmation



Confirmation

Special Test Certificate





Environment

Environmental Confirmations

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=3RV2011-1GA15

Cax online generator

rt.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1GA15 http://suppo

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1GA15

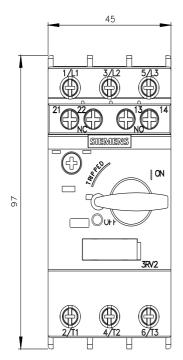
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

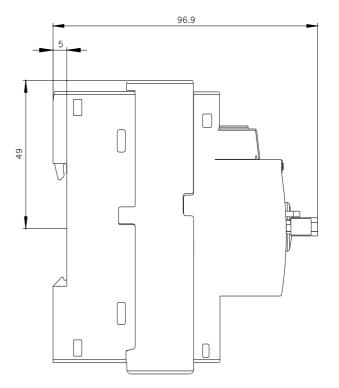
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1GA15&lang=en

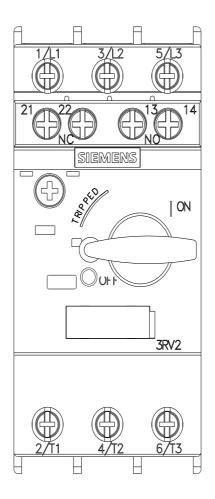
Characteristic: Tripping characteristics, I²t, Let-through current

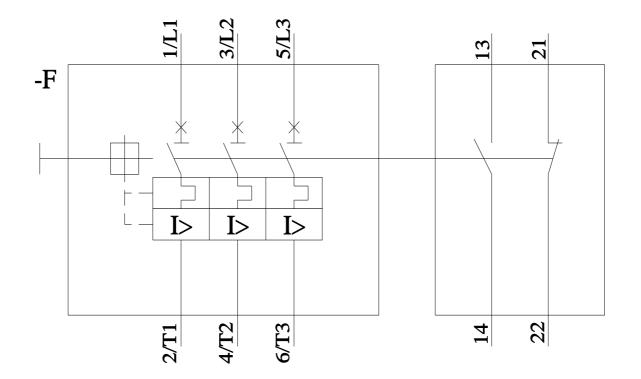
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1GA15/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1GA15&objecttype=14&gridview=view1









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