SIEMENS

Data sheet

3RV2011-1KA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 9...12 A N-release 163 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	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)	2097 11 113			
of the main contacts typical	100 000			
of auxiliary contacts typical	100 000			
electrical endurance (operating cycles) typical	100 000			
type of protection according to ATEX directive	Ex II (2) GD			
2014/34/EU				
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			
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	9 12.5 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	12.5 A			

operational current	
at AC-3 at 400 V rated value	12.5 A
• at AC-3e at 400 V rated value	12.5 A
operating power	
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	0.114
— at 230 V rated value	3 kW
— at 400 V rated value — at 500 V rated value	5.5 kW 7.5 kW
— at 690 V rated value	7.5 kW
operating frequency	7.5 KW
• 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	1A
• at 24 V • at 60 V	0.15 A
Protective and monitoring functions	0.107
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 (lcu)	
 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 	42 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	42 kA
• at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip	163 A
unit UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	12.5 A
at 600 V rated value	12.5 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	8 hp
 — at 575/600 V rated value contact rating of auxiliary contacts according to UL 	10 hp C300 / R300

Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
design of the fuse link	magnete		
for short-circuit protection of the auxiliary switch	Fuse al /aG: 10.4 miniature circuit breaker C.6.4 (abort circuit current		
• for short-circuit protection of the auxiliary switch	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 400 V	gL/gG 63 A		
• at 500 V	gL/gG 50 A		
• at 690 V	gL/gG 40 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		
— 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 circuit	Top and bottom		
type of connectable conductor cross-sections			
for main contacts	$0 \times (0.75) = 0.5 \text{ mm}^2 = 0 \times (1 \text{ mm}^2)$		
— solid or stranded	2x (0,75 2,5 mm ²), 2x 4 mm ²		
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
at AWG cables for main contacts	2x (18 14), 2x 12		
type of connectable conductor cross-sections			
for auxiliary contacts	$2 \times (0.5 - 1.5 \text{ mm}^2) = 2 \times (0.75 - 0.5 \text{ mm}^2)$		
 — solid or stranded finally stranded with core and processing 	$2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$ $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$		
 finely stranded with core end processing at AWG cables for auxiliany contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)		

 for auxiliary cor design of screwdrive size of the screwdrive 	ver tip	minals	0.8 Diam	. 1.2 N·m . 1.2 N·m eter 5 to 6 mm driv size 2				
 design of the thread of the connection screw for main contacts 			NO					
 of the auxiliary and control contacts 			M3 M3					
Safety related data								
B10 value								
•	• with high demand rate according to SN 31920			5 000				
 proportion of dangerous failures with low demand rate according to SN 31920 			50 %					
	nd rate according to SN 3		50 % 50 %					
failure rate [FIT]		1020	50 %					
	d rate according to SN 31	1920	50 FIT					
	t interval or service life ac	cording to	10 a					
	IEC 61508 protection class IP on the front according to IEC				IP20			
	the front according to I	EC 60529	finge	r-safe, for vertical conta	ct from the front			
display version for sw	-		Hand	lle				
Certificates/ approval	S	_		_	_			
General Product Ap	proval					For use in hazard- ous locations		
<u>Confirmation</u>	CCC	Ű		<u>KC</u>	EHC	K ATEX		
For use in hazard- ous locations	Declaration of Confor	mity		Test Certificates		Marine / Shipping		
IECEx	CE EG-Konf.	UK CA		<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS		
Marine / Shipping						other		
BUREAU VERITAS		Llovd's Register us		PRS	RINA	<u>Confirmation</u>		
other	Railway							
UDE VDE	<u>Vibration and Shock</u>	<u>Confirmatio</u>	<u>ın</u>					
Further information								
	Siemens has decided to exit the Russian market (see here).							
https://press.siemens	.com/global/en/pressrelea	ase/siemens-wi	ind-dov					
Please contact your lo	on the renewal of the cu ocal Siemens office on the elevant market (other than	e status of valio	dity of t	he EAC certification if y	ou intend to import or o a or Belarus).	offer to supply these		

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=3RV2011-1KA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1KA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA15

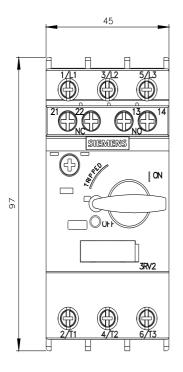
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1KA15&lang=en

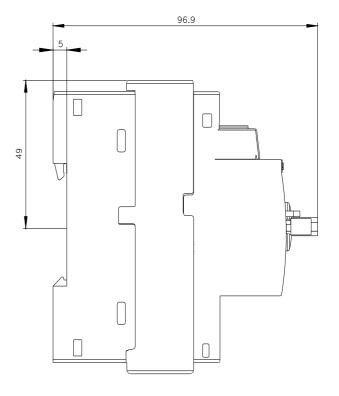
Characteristic: Tripping characteristics, I²t, Let-through current

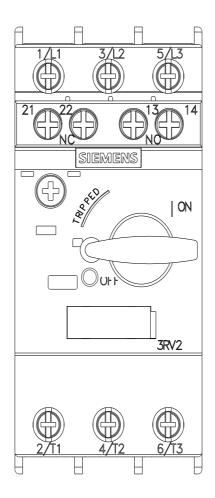
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA15/char

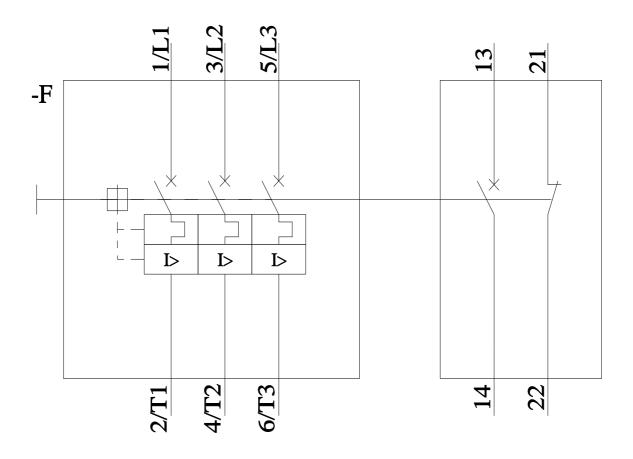
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1KA15&objecttype=14&gridview=view1









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