SIEMENS

Data sheet

3RV2011-1BA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.4...2 A N-release 26 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				
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 according to IEC 81346-2	Q				
Substance Prohibitance (Date)	10/01/2009				
SVHC substance name	Blei - 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	1.4 2 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	2 A				

operational current	
• at AC-3 at 400 V rated value	2 A
at AC-3e at 400 V rated value	2 A
operating power	
• at AC-3	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.75 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.75 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 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	0.074
• at 24 V	1 A
• at 60 V	0.15 A
	0.13 A
Protective and monitoring functions	
Protective and monitoring functions	
product function	No
product function ground fault detection 	No
 product function ground fault detection phase failure detection 	Yes
product function ground fault detection phase failure detection trip class	Yes CLASS 10
product function ground fault detection phase failure detection trip class design of the overload release 	Yes
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu)	Yes CLASS 10 thermal
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 10 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 10 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 600 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 500 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 10 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 500 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value tesponse value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 690 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 200 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 200 V rated value • for single-phase AC	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A 2 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 230 V rated value • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 460/480 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A 2 A 2 A 1 hp
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 200 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 600 V rated value • at AC at 600 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 460/480 V rated value - at 575	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A 2 A 2 A 1 hp
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 600 V rated value • at AC at 600 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rate	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A 2 A 2 A 1 hp

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 400 V	gL/gG 25 A				
• at 500 V	gL/gG 25 A				
• at 690 V	gL/gG 20 A				
stallation/ 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 	5 1111				
- downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
— forwards					
	0 mm				
for live parts at 690 V	50 mm				
— downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
— forwards onnections/ Terminals	0 mm				
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					
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²				
 — finely stranded with core end processing 	2x (0,7 3 2,3 mm ²), 2x (0.75 2.5 mm ²)				
for AWG cables for main contacts	2x (0.5 1.5 min), 2x (0.75 2.5 min) 2x (18 14), 2x 12				
type of connectable conductor cross-sections	LA (10 17), LA 12				
 for auxiliary contacts 					
colid or stronded	$2v (0 = 1 = mm^2) 2v (0 = 7 = 0 = mm^2)$				
 — solid or stranded — finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				

tightening torque								
 for main contacts 	 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			Diam	eter 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 a 	 of the auxiliary and control contacts 							
Safety related data								
B10 value								
 with high deman 	 with high demand rate according to SN 31920 				5 000			
proportion of dangerous failures								
 with low demand rate according to SN 31920 			50 %					
 with high deman 	d rate according to SN 37	1920	50 %					
failure rate [FIT]								
 with low demand 	I rate according to SN 31	920	50 FI	Т				
	interval or service life acc	ording to IEC	10 a					
61508			_					
-	the front according to		IP20					
	he front according to IE	C 60529		r-safe, for vertical contact	from the front			
display version for swit	ching status		Hand	le				
Certificates/ approvals			_					
General Product App	roval					For use in hazard- ous locations		
<u>Confirmation</u>		(UL)		KC	EHC	K ATEX		
For use in hazard- ous locations	Declaration of Confo	ormity		Test Certificates		Marine / Shipping		
IECE×	UK CA	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS		
Marine / Shipping						other		
BUREAU VERITAS		Lloyds Register urs		PRS	RINA	Household and similar appliances		
other		Railway			Environment			
<u>Confirmation</u>		<u>Confirmatio</u>	<u>nc</u>	Vibration and Shock	Environmental Con- firmations			
https://press.siemens.c Siemens is working o Please contact your loo EAC relevant market (o Information on the pa https://support.industry	other than the sanctioned ickaging .siemens.com/cs/ww/en/v	se/siemens-wind-dc rrent EAC certifica status of validity of EAEU member sta view/109813875	ates. f the EA	C certification if you inten	d to import or offer to sup	ply these products to an		
Information- and Dow https://www.siemens.co Industry Mall (Online		Brochures,)						

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-1BA15 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1BA15

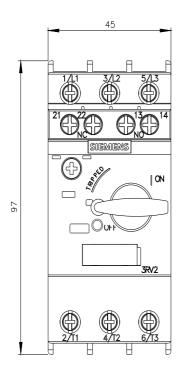
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1BA15

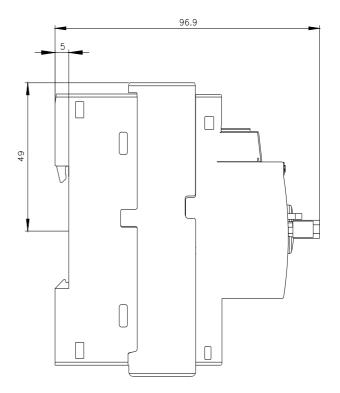
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1BA15&lang=en

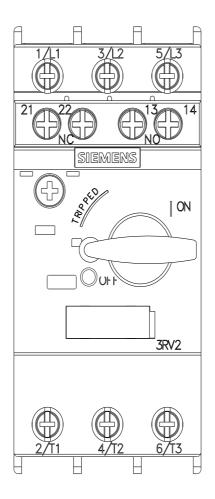
Characteristic: Tripping characteristics, I2t, Let-through current

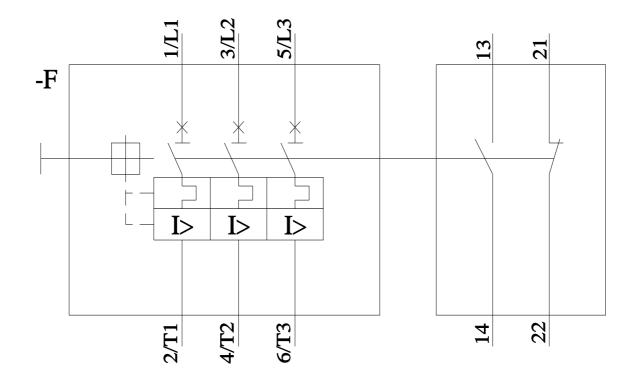
https://support.indu emens.com/cs/ww/en/ps/3RV2011-1BA15/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1BA15&objecttype=14&gridview=view1









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