SIEMENS

Data sheet

3RV1011-1KA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 9...12 A N-release 156 A 1 NO+1 NC transverse Screw terminal Standard switching capacity

product brand name	SIRIUS				
product designation	Circuit breaker				
design of the product	For motor protection				
product type designation	3RV1				
General technical data					
size of the circuit-breaker	S00				
size of contactor can be combined company-specific	S00				
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				
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)	01/01/2013				
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	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 A				
operational current					
• at AC-3 at 400 V rated value	12 A				
 at AC-3e at 400 V rated value 	12 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	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 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
number of NC contacts for auxiliary contacts	1
• note	1
number of NO contacts for auxiliary contacts	1
• note	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 110 V	2 A
• at 120 V	2 A
• at 125 V	2 A
• at 230 V	0.5 A
	0.5 A
operational current of auxiliary contacts at DC-13 • at 24 V	1A
• at 60 V	0.15 A
Durch and in a state in a firm of a state	
Protective and monitoring functions	
product function	
product function ground fault detection	No
product functionground fault detectionphase 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 50 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	Yes CLASS 10 thermal 100 kA 50 kA 3 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 50 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	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 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 AC at 690 V rated value • at 240 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 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 AC at 600 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 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 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 400 V rated value • at 500 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 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 operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value 	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 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 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 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 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 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 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 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 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 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 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 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 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 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 690 V rated value tat 600 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 480 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 13 kA 3 kA 2 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 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 13 kA 3 kA 2 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 400 V rated value • at 690 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 13 kA 3 kA 2 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 400 V rated value • at 690 V rated value • at 480 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 156 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 400 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 100/120 V rated value	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 156 A 12 A 12 A 12 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 400 V rated value • at 500 V rated value • at 690 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 4300 V rated value • at 4300 V ra	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 156 A 12 A 12 A 12 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 690 V rated value • at 480 V rated value • at 230 V rated value - at 230 V rated value • for 3-phase A	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 156 A 12 A 12 A 12 A 12 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 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 600 V rated value at 480 V rated value at 10/120 V rated value at 10/120 V rated value at 230 V rated value at 200/208 V rated value 	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 156 A 12 A 12 A 12 A 12 A 13 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 400 V rated value at 400 V rated value at 690 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 300 V rated value at 300 V rated value at 200 V rated value at 200 V rated value at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value 	Yes CLASS 10 thermal 100 kA 50 kA 3 kA 2 kA 100 kA 13 kA 3 kA 2 kA 156 A 12 A 12 A 12 A 12 A 13 hp

contact rating of auviliary contacts according to UI	C300 / R300
contact rating of auxiliary contacts according to UL	
Short-circuit protection	Voc
product function short circuit protection	Yes
design of the short-circuit trip design of the fuse link	magnetic
 for short-circuit protection of the auxiliary switch required 	fuse 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 240 V	gL/gG 80 A
• at 400 V	gL/gG 80 A
• at 500 V	gL/gG 50 A
• at 690 V	gL/gG 50 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	90 mm
width	45 mm
depth	75 mm
required spacing	
 for grounded parts at 400 V 	20
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
for live parts at 400 V	20 mm
— downwards	20 mm 20 mm
— upwards — at the side	20 mm 9 mm
 at the side for grounded parts at 500 V 	5 11111
for grounded parts at 500 v — downwards	20 mm
— upwards	20 mm
— upwards — at the side	9 mm
• for live parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections • for main contacts	
for main contacts — solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
 — solid of 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)
type of connectable conductor cross-sections	2A (0.0 1.0 mm), 2A (0.70 2.0 mm)
for auxiliary contacts	
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
. In their contacto with bolow type torminuto	

 for auxiliary contacts with screw-type terminals 		0.8 1	0.8 1.2 N·m				
size of the screwdriver tip		Pozidriv	Pozidriv size 2				
design of the thread of the	ne connection screw	v					
 for main contacts 		M3					
 of the auxiliary and 	 of the auxiliary and control contacts 		M3				
Safety related data							
B10 value							
 with high demand rate 	with high demand rate according to SN 31920		5 000				
proportion of dangerous failures							
with low demand rate according to SN 31920		50 %	50.%				
with high demand rate according to SN 31920		50 %					
with high demand rate according to SN 31920 failure rate [FIT]		30 %					
		50 FIT					
with low demand rate according to SN 31920		IP20					
protection class IP on the front according to IEC 60529			-6- 6	and for me the ender			
touch protection on the front according to IEC 60529		-	afe, for vertical conta	act from the front			
display version for switchin	ng status		Rocker	switch			
Certificates/ approvals							
General Product Approv	al				For use in hazardous	s locations	
Confirmation		\sim					
	(m)	(U _I)		FHI	IECEx	<u>(</u> {x})	
		9		ENL	•		
	ccc	UL			IECEx	ATEX	
Declaration of Conformi	ty	Test Certificat	tes		Marine / Shipping		
CE EG-Konf.	UK CA	<u>Special Test C</u> ate	<u>ertific-</u>	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS	
Marine / Shipping						other	
		-		-			
Llovd's	(A)	ALA	1		A LOW DOWN MAN	Miscellaneous	
Régister	N ALL)		DNV-GL		
LRS	PRS	RINA		RMRS	DAVOLICISION		
other		Railway					
Confirmation	\wedge	Special Test C	ertific-				
	DE	ate					
	VDE						
Further information							
Siemens has decided to				n husingga			
https://press.siemens.com Siemens is working on tl				<u>n-ousiness</u>			
				certification if you inte	end to import or offer to sup	ply these products to an	
EAC relevant market (othe	er than the sanctioned						
Information on the packa		wiew/100040075					
https://support.industry.sie	mens.com/cs/ww/en/						
	adcenter (Catalana	Brochuroe \					
https://www.siemens.com/	adcenter (Catalogs ic10	, Brochures,…)					
	ic10 lering system)						

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1KA15

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

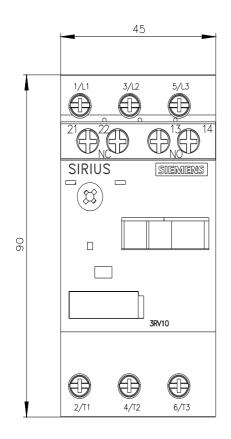
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1KA15

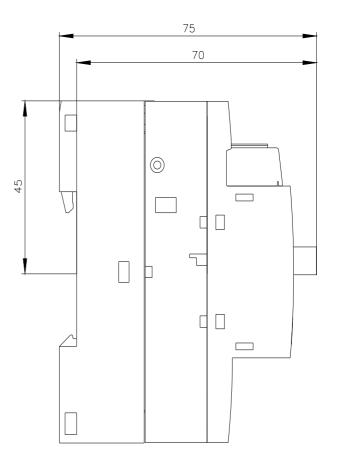
```
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
```

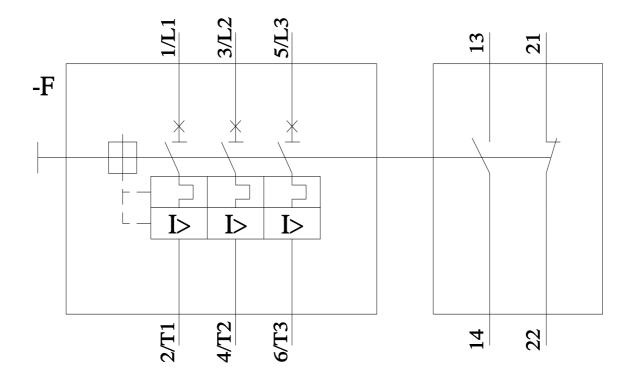
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1KA15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1KA15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1KA15&objecttype=14&gridview=view1







10/30/2023

last modified:

9/5/2023 🖸