SIEMENS

Data sheet

3RV1011-1FA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 3.5...5 A N release 65 A 1 NO+1 NC transverse Screw terminal Standard switching capacity

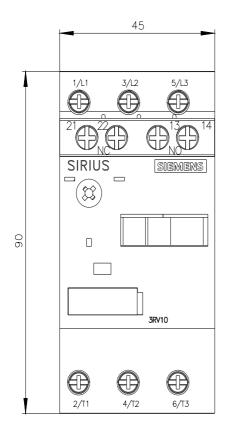
613	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	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
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	3.5 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	5 A
operational current	
• at AC-3 at 400 V rated value	5 A
 at AC-3e at 400 V rated value 	5 A

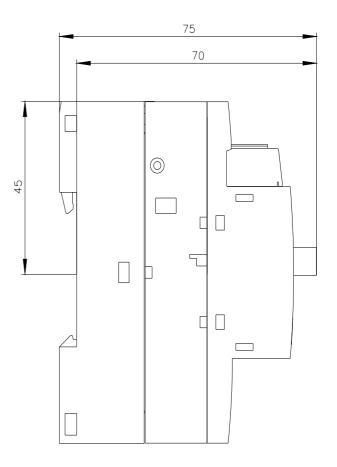
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operating power	
• at AC-3	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— 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
-	
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
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
● at 60 V	0.15 A
- 41.00 V	
Protective and monitoring functions	
Protective and monitoring functions	No
Protective and monitoring functions product function	
Protective and monitoring functions product function • ground fault detection	No
Protective and monitoring functions product function • ground fault detection • phase failure detection	No Yes
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class	No Yes CLASS 10
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release	No Yes CLASS 10
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu)	No Yes CLASS 10 thermal
Protective and monitoring functions 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	No Yes CLASS 10 thermal 100 kA 100 kA
Protective and monitoring functions 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	No Yes CLASS 10 thermal 100 kA 100 kA 3 kA
Protective and monitoring functions 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	No Yes CLASS 10 thermal 100 kA 100 kA
Protective and monitoring functions 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	No Yes CLASS 10 thermal 100 kA 100 kA 3 kA 2 kA
Protective and monitoring functions 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 240 V rated value at AC at 690 V rated value at AC at 690 V rated value at AC at 240 V rated value breaking capacity (Ics) at AC at 240 V rated value breaking capacity (Ics) at AC breaking capacity V rated value breaking capacity V rated value breaking capacit	No Yes CLASS 10 thermal 100 kA 100 kA 3 kA 2 kA 100 kA
Protective and monitoring functions 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	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA
Protective and monitoring functions 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 400 V rated value • at 500 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA
Protective and monitoring functions 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 • 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	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 2 kA
Protective and monitoring functions 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 500 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA
Protective and monitoring functions 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 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 • at 240 V rated value • at 240 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 2 kA
Protective and monitoring functions 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 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA 2 kA 65 A
Protective and monitoring functions 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 • at 240 V rated value • at 500 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA 2 kA 5 A
Protective and monitoring functions 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 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	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA 2 kA 65 A
Protective and monitoring functions 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 • at 240 V rated value • at 690 V rated value • at 600 V rated value • at 600 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA 2 kA 5 A
Protective and monitoring functions 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 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 690 V rated value • at 600 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA 2 kA 100 kA 5 A 5 A
Protective and monitoring functions 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 • at 240 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 600 V rated value • at 400 V rated value • at 400 V rated value • at 600 V rated value • at 400 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 3 kA 2 kA 100 kA 3 kA 2 kA 100 kA 5 A 5 A 5 A 0.17 hp
Protective and monitoring functions 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 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 • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 230 V rated value • at 230 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA 2 kA 100 kA 5 A 5 A
Protective and monitoring functions 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 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 operating short-circuit current breaking capacity (Ics) at AC • 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 480 V rated value • at 480 V rated value • at 600 V rated value • at 230 V rated value • for 3-phase AC motor • for 3-phase AC motor	No Yes CLASS 10 thermal 100 kA 100 kA 3 kA 2 kA 100 kA 100 kA 3 kA 2 kA 100 kA 3 kA 2 kA 100 kA 3 kA 2 kA 65 A 5 A 5 A 5 A 5 A 0.17 hp 0.5 hp
Protective and monitoring functions 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 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 230 V rated value • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA 2 kA 100 kA 3 kA 2 kA 100 kA 3 kA 2 kA 65 A 5 A 5 A 5 A 5 A 100 kB 1 hp
Protective and monitoring functions 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 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 operating short-circuit current breaking capacity (Ics) at AC • 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 480 V rated value • at 480 V rated value • at 600 V rated value • at 230 V rated value • for 3-phase AC motor • for 3-phase AC motor	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 2 kA 100 kA 3 kA 2 kA 100 kA 3 kA 2 kA 65 A 5 A 5 A 5 A 100 kA 100 kB 100 kB <
Protective and monitoring functions 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 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 230 V rated value • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA 2 kA 100 kA 100 kA 3 kA 2 kA 100 kA 0 kA 1 hp
Protective and monitoring functions 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 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 690 V rated value • at 240 V rated value • at 690 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • for 3-phase AC motor - at 200/208 V rated value • at 220/230 V rated value - at 220/230 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 3 kA 2 kA 100 kA 3 kA 2 kA 100 kA 3 kA 2 kA 65 A 5 A 5 A 5 A 5 A 100 kA 100 kB

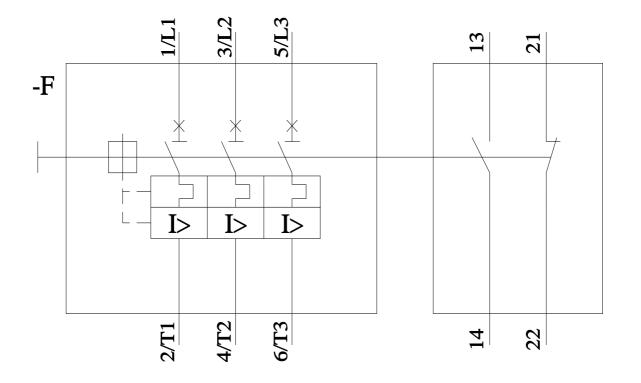
contact rating of auxiliary contacts according to UL	C300 / R300		
Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	res magnetic		
design of the fuse link	maynout		
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A, 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	none required		
• at 400 V	gL/gG 50 A		
• at 500 V	gL/gG 35 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	90 mm		
width	45 mm 75 mm		
depth required spacing			
 for grounded parts at 400 V 			
- downwards	20 mm		
— upwards	20 mm		
— at the side	9 mm		
• for live parts at 400 V			
— downwards	20 mm		
— upwards	20 mm		
— at the side	9 mm		
 for grounded parts at 500 V 			
— downwards	20 mm		
— upwards	20 mm		
— 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	00		
— downwards	20 mm		
— upwards	20 mm 0 mm		
— backwards — at the side	0 mm 9 mm		
— at the side — 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		
 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	$2v (0.5 - 1.5 mm^2) 2v (0.75 - 2.5 mm^2) 2v (4 - 4 mm^2)$		
 — solid or stranded finely stranded with core and processing 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x (1 4 mm ²)		
finely stranded with core end processing type of connectable conductor cross-sections	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for auxiliary contacts			
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
tightening torque	2x (0.0 1.0 min); 2x (0.10 2.0 min)		
agained and a contract of the			

 for main contacts with s 	5.		0.8 1.2 N·m			
for auxiliary contacts with screw-type terminals			0.8 1.2 N·m			
size of the screwdriver tip			Pozidriv size 2			
 design of the thread of the c for main contacts 	connection screw	/	140			
 for main contacts of the auxiliary and control contacts 			M3			
	troi contacts		M3			
Safety related data						
proportion of dangerous fail		~~~	50.04			
with low demand rate according to SN 31920		50 %				
with high demand rate according to SN 31920		50 %				
failure rate [FIT] with low demand rate according to SN 31920		50 FIT				
B10 value with high demand rate according to SN 31920		5 000				
protection class IP on the fro			IP20			
	touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front			
display version for switching s	tatus		Rocker switch			
Approvals Certificates		_				
General Product Approval				For use in hazardou	s locations	
	<u>Confirmation</u>	(الله س	EAL	IECEx	ATEX A	
Declaration of Conformity		Test Certificat	es	Marine / Shipping		
	UK CA	<u>ates/Test Re</u>	port ate	ABS	BUREAU VERITAS	
Marine / Shipping					other	
Lloyd's Register uts	PRS		RMRS	DNV-GL CHARLECTER	<u>Miscellaneous</u>	
other		Railway				
<u>Confirmation</u>		<u>Special Test Cr</u> ate	ertific-			
Further information						
EAC relevant market (other the Information on the packagin https://support.industry.siemer Information- and Downloadd https://www.siemens.com/ic10 Industry Mall (Online orderin https://mall.industry.siemens.co Cax online generator http://support.automation.siem Service&Support (Manuals, https://support.industry.siemer Image database (product im http://www.automation.siemen Characteristic: Tripping cha	bal/en/pressreleas enewal of the cu nens office on the an the sanctioned g ns.com/cs/ww/en// center (Catalogs, ng system) com/mall/en/en/Ca tens.com/WW/CA Certificates, Cha ns.com/cs/ww/en/j ages, 2D dimens us.com/bilddb/cax racteristics, I²t, L	se/siemens-wind-du rrent EAC certific: status of validity of EAEU member sta view/109813875 Brochures,) talog/product?mlfb Xorder/default.asp: racteristics, FAQ: ps/3RV1011-1FA1! ion drawings, 3D de.aspx?mlfb=3R'	ates. the EAC certification if young the second se	bu intend to import or offer to sup <u>1-1FA15</u> liagrams, EPLAN macros,)	oply these products to an	
https://support.industry.siemer	<u>ns.com/cs/ww/en/</u> j	<u>ps/3RV1011-1FA1</u>	<u>b/char</u>	Quibia et ta	change without notice	

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1FA15&objecttype=14&gridview=view1







11/24/2023

last modified:

9/5/2023 🖸