## SIEMENS

## Data sheet

## 3RV1011-1FA15



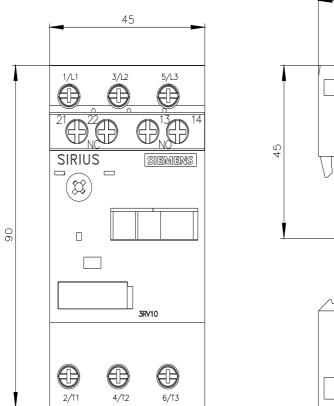
Circuit breaker size S00 for motor protection, CLASS 10 A-release 3.5...5 A N release 65 A 1 NO+1 NC transverse Screw terminal Standard switching capacity

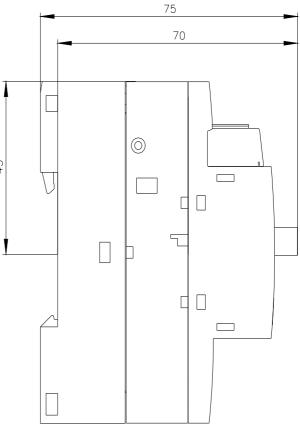
SIRIUS			
Circuit breaker			
For motor protection			
3RV1			
S00			
S00			
Yes			
7.25 W			
2.4 W			
690 V			
6 kV			
100 000			
100 000			
100 000			
Q			
01/01/2013			
Lead - 7439-92-1			
2 000 m			
-20 +60 °C			
-20 +60 °C -50 +80 °C			
-50 +80 °C			
-50 +80 °C -50 +80 °C			
-50 +80 °C -50 +80 °C			
-50 +80 °C -50 +80 °C 10 95 %			
-50 +80 °C -50 +80 °C 10 95 % 3			
-50 +80 °C -50 +80 °C 10 95 % 3			
-50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A			
-50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A 20 690 V			
-50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V			
-50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V 690 V			
-50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V 690 V 690 V 50 60 Hz			
-50 +80 °C -50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V 690 V 690 V 50 60 Hz			

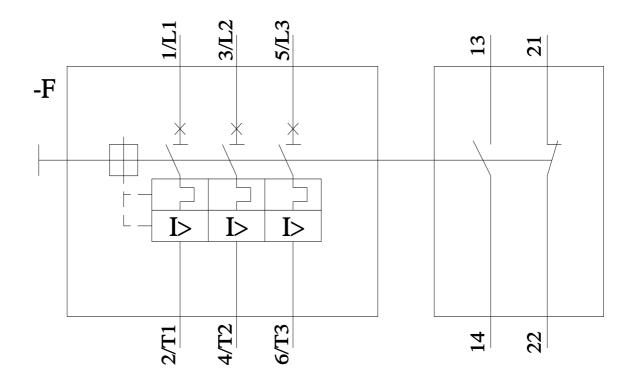
	-
operating power	
• at AC-3	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
operating frequency	
• 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 (lcu) e at AC at 240 V rated value e 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 480 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           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 (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	C3007 R300				
	Yes				
product function short circuit protection					
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	luse gG. TO A, miniature circuit breaker C o A (short-circuit current ik < 400 A)				
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				
depth	75 mm				
required spacing					
<ul> <li>for grounded parts at 400 V</li> </ul>					
— 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				
<ul> <li>for grounded parts at 500 V</li> </ul>					
— downwards	20 mm				
— upwards	20 mm				
— at the side	9 mm				
<ul> <li>for live parts at 500 V</li> </ul>					
— downwards	20 mm				
— upwards	20 mm				
— at the side	9 mm				
<ul> <li>for grounded parts at 690 V</li> </ul>					
— downwards	20 mm				
— upwards	20 mm				
— backwards	0 mm				
— at the side	9 mm				
— forwards	0 mm				
<ul> <li>for live parts at 690 V</li> </ul>					
— 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				
<ul> <li>for auxiliary and control circuit</li> </ul>	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 (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
type of connectable conductor cross-sections					
for auxiliary contacts					
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
tightening torque					

<ul> <li>for auxiliary conta</li> <li>size of the screwdriver</li> <li>design of the thread of</li> <li>for main contacts</li> <li>of the auxiliary an</li> <li>Safety related data</li> <li>proportion of dangerou</li> <li>with low demand</li> </ul>	d control contacts us failures rate according to SN 31	inals	0.8	1.2 N·m 1.2 N·m iv size 2		
with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920		5 000				
failure rate [FIT] with low demand rate according to SN 31920		50 FIT				
Electrical Safety						
protection class IP on the front according to IEC 60529		IP20				
touch protection on the		C 60529		safe, for vertical contact	from the front	
display version for switcl	ning status		Rocke	r switch		
Approvals Certificates General Product Appro						
CE EG-Konf.	UK CA			<u>Confirmation</u>	Ű	EHC
For use in hazardous I	ocations	Test Certificate	es		Marine / Shipping	
IECEx	K ATEX	<u>Type Test Cer</u> ates/Test Rep		<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS
Marine / Shipping						other
	Lloyd's Kegister uis	PRS		RINA	RMRS	<u>Miscellaneous</u>
other		Railway		Environment		
<u>Confirmation</u>		<u>Special Test Ce</u> <u>ate</u>	<u>ertific-</u>	Environmental Con- firmations		
Further information						
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=3RV1011-1FA15 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1FA15 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://unandf.industry.siemens.com/cs/ww/en/os/2RV1011-1FA15						
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1FA15 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1FA15⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1FA15/char 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						







## last modified:

3/11/2024 🖸

3/21/2024