# **SIEMENS**

Product data sheet 3RV2111-1FA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 3.5...5A, N-RELEASE 65A, SCREW CONNECTION, STANDARD SW. CAPACITY

General technical data:			
product brand name		SIRIUS	
product designation		3RV2 circuit breaker	
Size of the circuit-breaker		S00	
Number of poles / for main current circuit		3	
Product function			
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		No	
overload protection		Yes	
phase disturbance recognition		Yes	
short-circuit to earth recognition		No	
Product component			
auxiliary switch		Yes	
undervoltage release mechanism		No	
trip indicator		No	
Product extension			
auxiliary switch		Yes	
optional / motor drive		No	
Impulse voltage resistance / rated value	kV	6	
Protection class IP / on the front		IP20	
Protection against electrical shock		finger-safe	

Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against shock		25g / 11 ms
Ambient temperature		
during transport	°C	-50 +80
during storage	°C	-50 +80
during operating	°C	-20 +60
Active power loss / total / typical	W	7

Main circuit:		
Operating voltage / rated value	V	690
Service power / at AC-3		
• at 400 V / rated value	W	2,200
• at 500 V / rated value	W	2,200
at 690 V / rated value	W	4,000
Operational current / at AC-3 / at 400 V / rated value	Α	5
Mechanical operating cycles as operating time / of the main contacts / typical		100,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2	1/h	15

Auxiliary circuit:		
Design of the auxiliary switch		laterally
Number of change-over switches / for auxiliary contacts		0
Mechanical operating cycles as operating time / of the auxiliary contacts / typical		100,000
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A, quick: 10 A
Operating current / of the auxiliary contacts / at AC-15 / at 24 V	Α	1.5
Operating current / of the auxiliary contacts		
• at AC-15		
• at 230 V	Α	1.5
• at DC-13		
• at 24 V	Α	1

Protection function:			
Trip class		CLASS 10	
Adjustable response current / of the current-dependent overload release	А	3.5 5	
Breaking capacity limit short-circuit current (Icu)			
• at 400 V / rated value	Α	100,000	
• at 500 V / rated value	Α	100,000	
• at 690 V / rated value	Α	6,000	

# Safety:

Proportion of dangerous failures		
<ul> <li>with high demand rate / according to SN 31920</li> </ul>	%	40
• with low demand rate / according to SN 31920	%	40
Failure rate (FIT value) / with low demand rate / according to SN 31920	FIT	50
B10 value / with high demand rate / according to SN 31920		50,000
T1 value / for proof test interval or service life / according to IEC 61508	а	10

Installation/mounting/dimensions:			
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
mounting position		any	
Depth	mm	96	
Height	mm	97	
Width	mm	65	

Connections:	
Arrangement of electrical connectors / for main current circuit	Top and bottom
Design of the electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
Type of the connectable conductor cross-section	
• for main contacts	
• solid	2x (0.75 2.5 mm²), 2x 4 mm²
• finely stranded	
with conductor end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG conductors / for main contacts	2x (18 14), 2x 12
for auxiliary contacts	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• finely stranded	
with conductor end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG conductors / for auxiliary contacts	2x (20 16), 2x (18 14)

UL/CSA ratings:			
yielded mechanical performance (hp)			
• for single-phase squirrel cage motors			
• at 110/120 V / rated value	hp	0.167	
• at 230 V / rated value	hp	0.5	
<ul> <li>for three-phase squirrel cage motors</li> </ul>			
• at 200/208 V / rated value	hp	1	
• at 220/230 V / rated value	hp	1	

• at 460/480 V / rated value	hp	3
• at 575/600 V / rated value	hp	3
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	4.8
• at 600 V / rated value	Α	3.9
Contact rating designation / for auxiliary contacts / according to UL		C600 / R300

### Certificates/approvals:

#### **General Product Approval**

Declaration of Conformity

**Test Certificates** 









Special Test Certificate Type Test
Certificates/Test
Report

#### **Shipping Approval**













**Shipping Approval** 





other

other

## **Further information:**

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

#### Cax online generator:

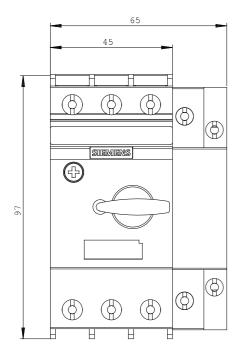
http://www.siemens.com/cax

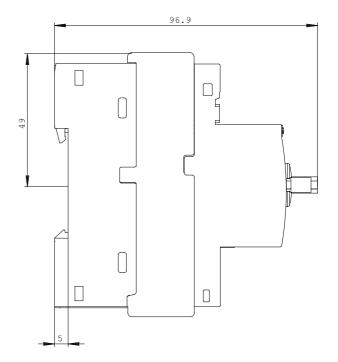
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

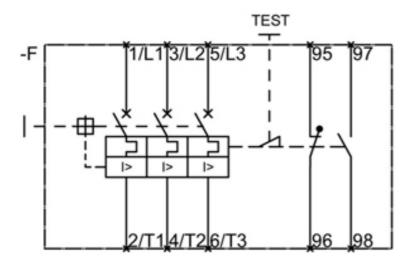
http://support.automation.siemens.com/WW/view/en/3RV2111-1FA10/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2111-1FA10







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