# **SIEMENS**

Product data sheet 3RV2111-1CA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE1.8...2.5A, N-RELEASE33A, SCREW CONNECTION, STANDARD SW. CAPACITY

General technical data:		
Product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		S00
Trip class		CLASS 10
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-50 80
during operating	°C	-20 60
during transport	°C	-50 80
Resistance against shock		25g / 11 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Active power loss / total / typical	W	6
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		F
according to DIN EN 61346-2		F

Mechanical operating cycles as operating time		
of the main contacts / typical		100,000
of the main contacts / typical     of the auxiliary contacts / typical		100,000
<u> </u>	_	,
Design of the auxiliary switch		laterally
Type of the driving mechanism / motor drive		No
Design of the operating mechanism		selector switch
Product function		
overload protection		Yes
phase disturbance recognition		Yes
Product component		
auxiliary switch		Yes
• undervoltage release mechanism		No
• trip indicator		No
Product extension / optional / motor drive		No
Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	А	1.9
Service power / at AC-3		
• at 400 V / rated value	W	750
• at 500 V / rated value	W	1,100
• at 690 V / rated value	W	1,500
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		Top and bottom

Auxiliary circuit:	
Product extension / auxiliary switch	Yes
Number of NC contacts / for auxiliary contacts / instantaneous switching	1
Number of NO contacts / for auxiliary contacts / instantaneous switching	1
Number of change-over switches / for auxiliary contacts	0
Operating current / of the auxiliary contacts	

33 ... 33

1.8 ... 2.5

370

2.5

Α

Α

W

• at AC-15

Adjustable response current

Continuous current / rated value

• of the non-delayed short-circuit release

• of the current-dependent overload release

Service power / at AC-3 / at 230 V / rated value

• at 24 V	Α	1.5
• at 230 V	Α	1.5
• at DC-13		
• maximum	Α	1.5
• at 24 V	Α	1

Inputs/ Outputs:	
Number of digital inputs	0

Short-circuit:		
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	Α	100,000
• at 500 V / rated value	Α	100,000
• at 690 V / rated value	Α	10,000
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A, quick: 10 A
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:		
Built in orientation		any
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Width	mm	65
Height	mm	97
Depth	mm	91
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• downwards	mm	50
• sidewards	mm	0
Distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• sidewards	mm	30
• downwards	mm	50
Distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• downwards	mm	50

Connections:	
Product function	
• removable terminal for main circuit	No
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	No
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 (1 4 mm2)
• stranded	2x (0.75 2.5 mm²), 2x 4 mm²
• finely stranded	
<ul> <li>with conductor end processing</li> </ul>	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	
<ul> <li>with conductor end processing</li> </ul>	2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
• for AWG conductors / for auxiliary contacts	2x (20 16), 2x (18 14)

<b>Certificates</b>	approvals:
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### Verification of suitability

• für Staubexplosionsschutz für Zone 21/22

• for gas explosion protection for zone 1/2

CE/UL/CSA

no

no

## **General Product Approval**





ROSTEST



Manufacturer

**Test Certificates** 

## **Shipping Approval**













other

Manufacturer

other



UL/CSA ratings		
yielded mechanical performance (hp)		

• for single-phase squirrel cage motors		
• at 230 V / rated value	hp	0.167
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	0.5
• at 220/230 V / rated value	hp	0.5
• at 460/480 V / rated value	hp	1
• at 575/600 V / rated value	hp	1.5
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	2.1
• at 600 V / rated value	Α	2.4
Contact rating designation / for auxiliary contacts / according to UL		C600 / R300

Safety:		
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
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	50
Proportion of dangerous failures		
• with low demand rate / according to SN 31920	%	40
with high demand rate / according to SN 31920	%	40
Protection against electrical shock		finger-safe

### **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** 

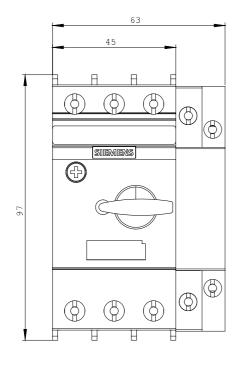
http://www.siemens.com/cax

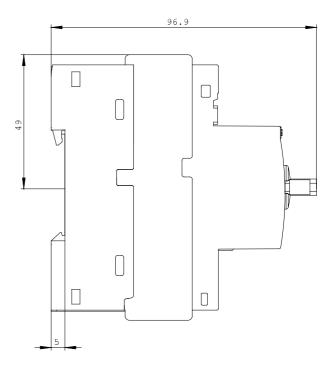
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

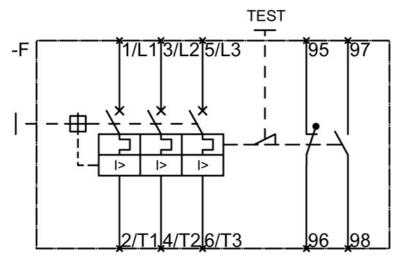
http://support.automation.siemens.com/WW/view/en/3RV2111-1CA10/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2111-1CA10







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