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
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	7
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F
according to DIN EN 61346-2		F

Mechanical operating cycles as operating time			
of the main contacts / typical		100,000	
of the auxiliary contacts / typical		100,000	
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	A	4.9	
Service power / at AC-3			
at 400 V / rated value	W	2,200	

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	4.9
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
Frequency of operation / at AC-3 / according to IEC 60947-6-2 /	1/h	15
maximum		
		Top and bottom
maximum		
maximum Arrangement of electrical connectors / for main current circuit	A	
maximum Arrangement of electrical connectors / for main current circuit Adjustable response current		Top and bottom
maximum Arrangement of electrical connectors / for main current circuit Adjustable response current • of the non-delayed short-circuit release		Top and bottom 65 65

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	
• at AC-15	

• 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 (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
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
• removable terminal for auxiliary and control circuit	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	
 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)

Certificates/	annrovals.
OCI IIII GALGO	appiovais.

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 110/120 V / rated value	hp	0.167
• at 230 V / rated value	hp	0.5
• for three-phase squirrel cage motors		
• 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

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

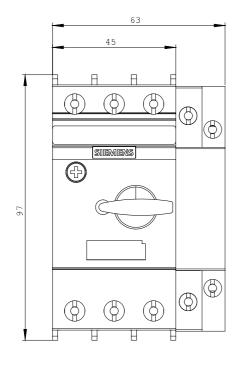
http://www.siemens.com/cax

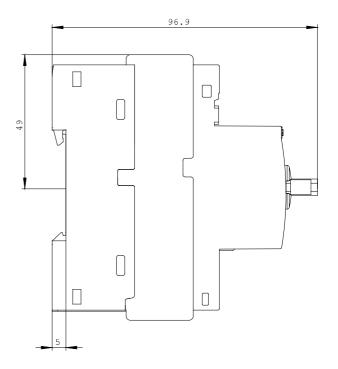
 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$

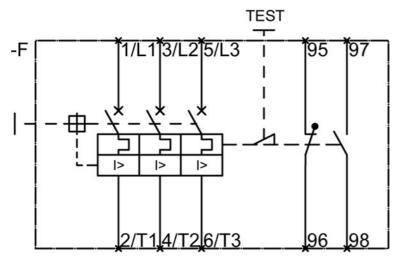
http://support.automation.siemens.com/WW/view/en/3RV2111-1FA10/all

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

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







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