Product data sheet



CIRCUIT-BREAKER SZ S00,
FOR MOTOR PROTECTION, CLASS 10,
A-RELEASE 3.5...5A, N-RELEASE 65A,
SCREW CONNECTION,
STANDARD SW. CAPACITY W. TRANSVERSE AUX.
SWITCH 1NO+1NC MULTI-UNIT PACKAGE = 12 UNITS

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			
• removable terminal for auxiliary and control circuit		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:		
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		transverse
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: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
Operating current / of the auxiliary contacts / at AC-15 / at 24 V	Α	2
Operating current / of the auxiliary contacts		
• at AC-15		
• at 230 V	Α	0.5
• at DC-13		
• at 24 V	Α	1
• at 60 V	Α	0.15

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 (lcu)			
• at 400 V / rated value	Α	100,000	
• at 500 V / rated value	Α	100,000	
• at 690 V / rated value	А	6,000	

Safety:

Proportion of dangerous failures		
 with high demand rate / according to SN 31920 	%	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	45	

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	
 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		C300 / R300

Certificates/approvals:

General Product Approval

For use in hazardous locations

Declaration of Conformity

Test Certificates

Type Test
Certificates/Test
Report

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:

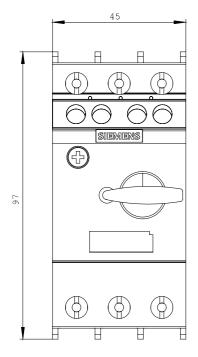
http://www.siemens.com/cax

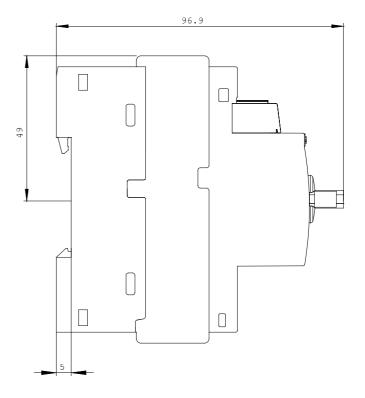
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3RV2011-1FA15-ZW97/all}}$

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1FA15-ZW97}$





last change: Feb 14, 2013