SIEMENS

Product data sheet

3RV2011-1GA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 4.5...6.3A, N-RELEASE 82A 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		
 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		No
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

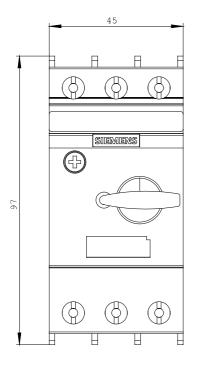
		0.000
Installation altitude / at a height over sea level / maximum		2,000
Resistance against shock	-	25g / 11 ms
Ambient temperature		
during transport	°C	-50 +80
during storage	°C	-50 +80
during operating	°C	-20 +60
Active power loss / total / typical	W	6.7
Main circuit:		
Operating voltage / rated value	V	690
Service power / at AC-3	-	
• at 400 V / rated value	W	2,200
• at 500 V / rated value	W	3,000
• at 690 V / rated value	W	4,000
Operating current / at AC-3 / at 400 V / rated value	А	6.3
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:		
Number of change-over switches / for auxiliary contacts		0
Mechanical operating cycles as operating time / of the auxiliary contacts / typical		100,000
Protection function:		
Trip class		CLASS 10
Adjustable response current / of the current-dependent overload release	A	4.5 6.3
Breaking capacity limit short-circuit current (lcu)	-	
• at 400 V / rated value	А	100,000
• at 500 V / rated value	А	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

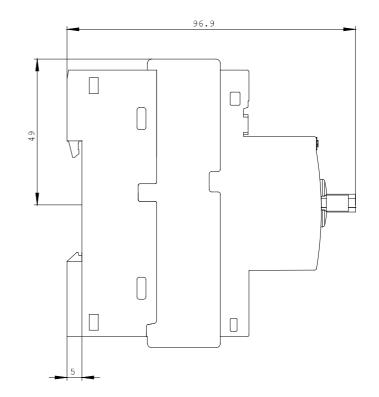
Installation/mounting/dimensions:				
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
mounting position		any		
Depth	mm	96		
Height	mm	97		
Width	mm	45		
Connections:				
Arrangement of electrical connectors / for main current circuit		Top and bottom		
Design of the electrical connection				
for main current circuit		screw-type terminals		
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		
UL/CSA ratings:				
yielded mechanical performance (hp)				
 for single-phase squirrel cage motors 				
• at 110/120 V / rated value	hp	0.25		
• 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	1.5		
• at 460/480 V / rated value	hp	3		
• at 575/600 V / rated value	hp	5		
Operating current (FLA) / for three-phase squirrel cage motors				
• at 480 V / rated value	А	4.8		
• at 600 V / rated value	А	6.1		

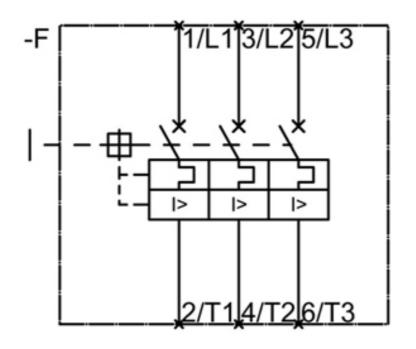
Certificates/approvals:

General Product	: Approval			For use in hazardous locations	Declaration of Conformity
	(SA)	GOST		K ATEX	EG-Konf.
Test Certificates	i				
other	Special Test Certificate	<u>Type Test</u> Certificates/Test <u>Report</u>			
Shipping Approv	val				
ABS	GL	Lloyd's Kegister	PRS	RINA	RMRS
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last change:

Oct 29, 2012