SIEMENS

Product data sheet

3RV2021-4AA10-ZW97



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-REL. 11...16A, N-REL. 208A, SCREW CONNECTION, STANDARD SWITCHING CAPACITY MULTI-UNIT PACKAGE PACKAGE = 12 UNITS

General technical data:						
product brand name		SIRIUS				
product designation		3RV2 circuit breaker				
Size of the circuit-breaker		S0				
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				

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	8.3
Main circuit:		
Operating voltage / rated value	V	690
Service power / at AC-3		
• at 400 V / rated value	W	7,500
• at 500 V / rated value	W	7,500
• at 690 V / rated value	W	11,000
Operational current / at AC-3 / at 400 V / rated value	А	16
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	А	11 16
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	А	55,000
• at 500 V / rated value	А	10,000
• at 690 V / rated value	А	4,000
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

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 (1 2.5 mm²), 2x (2.5 10 mm²)		
finely stranded				
 with conductor end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
for AWG conductors / for main contacts		2x (16 12), 2x (14 8)		
UL/CSA ratings:				
yielded mechanical performance (hp)				
 for single-phase squirrel cage motors 				
• at 110/120 V / rated value	hp	1		
• at 230 V / rated value	hp	2		
 for three-phase squirrel cage motors 				
• at 200/208 V / rated value	hp	3		
• at 220/230 V / rated value	hp	5		
• at 460/480 V / rated value	hp	10		
Operating current (FLA) / for three-phase squirrel cage motors				
• at 480 V / rated value	А	14		

General Product Approval		For use in hazardous locations	Declaration of Conformity	Test Certificates	
(SA)		K ATEX	CE EG-Konf.	Special Test Certificate	Type Test Certificates/Test Report
Shipping Approval		other			
B U R E A U VERITAS		other			

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

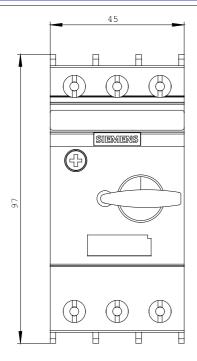
http://www.siemens.com/industrial-controls/mall

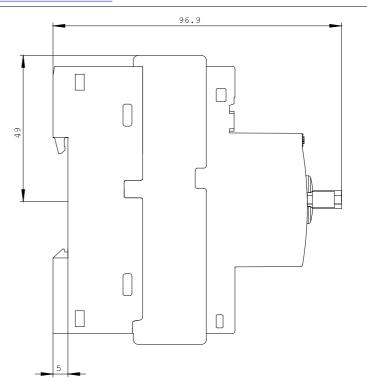
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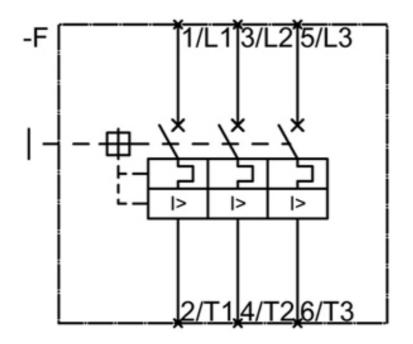
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2021-4AA10-ZW97/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-4AA10-ZW97







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