SIEMENS

Product data sheet

3RV2021-4AA15



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 11...16A, N-RELEASE 208A, SCREW CONNECTION, STANDARD SW. CAPACITY, W. TRANSVERSE AUX. SWITCH 1NO+1NC

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		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	ass IP / on the front IP20		
Protection against electrical shock	nst 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:				
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 Ik < 400 A)		
Operating current / of the auxiliary contacts / at AC-15 / at 24 V	А	2		
Operating current / of the auxiliary contacts				
• at AC-15				
• at 230 V	А	0.5		
• at DC-13				
• at 24 V	А	1		
• at 60 V	А	0.15		

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	

0-6-6-6					
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 (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)			
 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	1			
• at 230 V / rated value	hp	2			
a far three phase aguirrel as a motors					

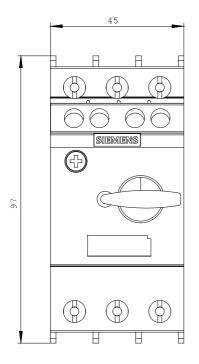
for three-phase squirrel cage motors

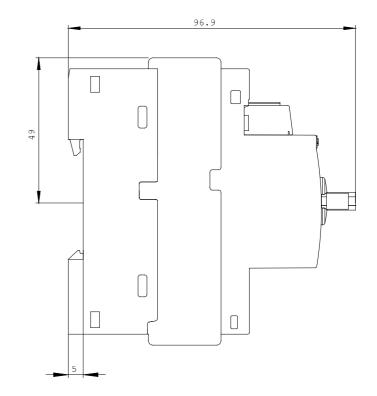
• at 200/208 V / rated value

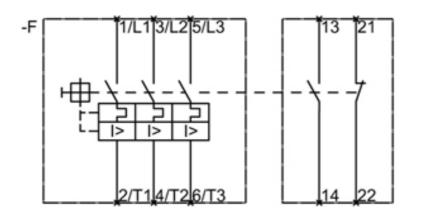
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hp

• at 220/230 V /	rated value		hp	5			
• at 460/480 V /	rated value		hp	10			
Operating current (F	LA) / for three-phase	e squirrel cage motors					
• at 480 V / rated v	• at 480 V / rated value			14			
Contact rating designation / for auxiliary contacts / according to UL				C300 / R300			
Certificates/appro	vals:						
General Product Approval			For use in hazardous locations	Declaration of Conformity			
(SA)	GOST		K ATEX		G-Konf.		
Test Certificates							
<u>other</u>	Special Test Certificate	<u>Type Test</u> Certificates/Test <u>Report</u>					
Shipping Approval							
ABS	BUREAU VERITAS		GL GL	L Re	ovd's gister Lrs	PRS	
Shipping Approval		other					
RINA	RMRS	VDE	<u>other</u>				
Further informatio	on:						
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/3RV2021-4AA15/all							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-4AA15							







last change:

Feb 14, 2013