SIEMENS

Product data sheet

3RV2021-1FA10



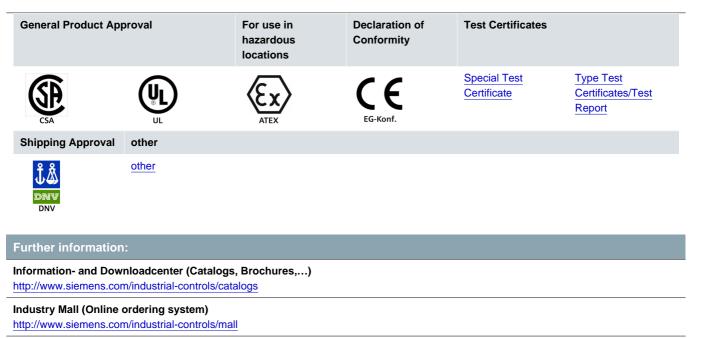
CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-REL. 3.5...5A, N-REL. 65A SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name product designation Size of the circuit-breaker		SIRIUS 3RV2 circuit breaker
-		3RV2 circuit breaker
Size of the circuit-breaker		
		SO
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	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	2,200
• at 690 V / rated value	W	4,000
Operational current / at AC-3 / at 400 V / rated value	А	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:		
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	3.5 5
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 (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	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	А	4.8		
• at 600 V / rated value	А	3.9		

Certificates/approvals:

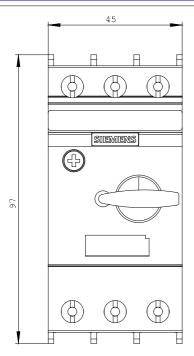


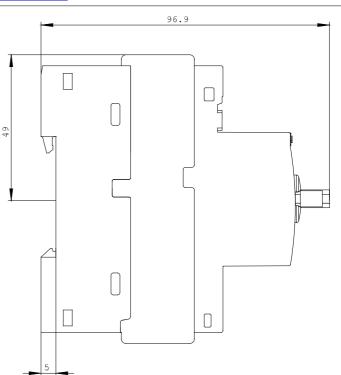
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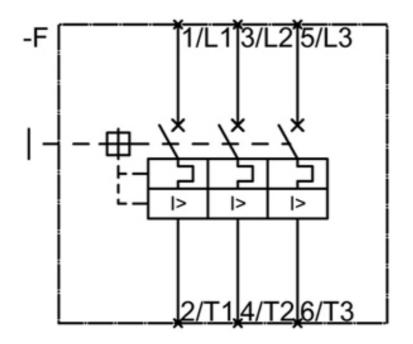
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2021-1FA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-1FA10





02/21/2013



last change:

Feb 14, 2013