SIEMENS

Product data sheet 3RV2021-4BA10



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 14...20A, N-RELEASE 260A, SCREW CONNECTION, STANDARD SW. CAPACITY,

General technical data:			
product brand name		SIRIUS	
product designation		3RV2 circuit breaker	
Size of the circuit-breaker		S0	
Trip class		CLASS 10	
Protection class IP / on the front		IP20	
Degree of pollution		3	
Installation altitude / at a height over sea level / maximum	m	2,000	
Ambient temperature			
during storage	°C	-50 +80	
during operating	°C	-20 +60	
during transport	°C	-50 +80	
Resistance against shock		25g / 11 ms	
Impulse voltage resistance / rated value	kV	6	
Insulation voltage / rated value	V	690	
Active power loss / total / typical	W	9.6	
Item designation			
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F	
according to DIN EN 61346-2		F	

	100,000
	100,000
	No
	selector switch
	Yes
	Yes
	No
	No
	No
	No
	3
V	690
Α	20
W	7,500
W	11,000
W	15,000
1/h	15
_	Top and bottom
Α	260 260
Α	14 20
W	5,500
А	20
	Yes
	100
	0
	0
	0
	A W W W 1/h A A W

Short-circuit:		
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	Α	55,000
• at 500 V / rated value	Α	10,000
• at 690 V / rated value	Α	4,000
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:			
mounting position		any	
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
Width	mm	45	
Height	mm	97	
Depth	mm	91	
Distance, to be maintained, to the ranks assembly			
• forwards	mm	0	
• backwards	mm	0	
• upwards	mm	50	
• downwards	mm	50	
• sidewards	mm	0	
Distance, to be maintained, to earthed part			
• forwards	mm	0	
• backwards	mm	0	
• upwards	mm	50	
• sidewards	mm	30	
• downwards	mm	50	
Distance, to be maintained, conductive elements			
• forwards	mm	0	
• backwards	mm	0	
• upwards	mm	50	
• downwards	mm	50	
• sidewards	mm	30	

Connections:			
Product function			
removable terminal for main circuit		No	
• removable terminal for auxiliary and control circuit		No	
Design of the electrical connection			
for main current circuit		screw-type terminals	
Type of the connectable conductor cross-section			
• for main contacts			

- solid
- finely stranded
 - with conductor end processing
- for AWG conductors / for main contacts

2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

 $2x~(1~...~2.5~mm^2),~2x~(2.5~...~6~mm^2),~1x~10~mm^2$

2x (16 ... 12), 2x (14 ... 8)

Certificates/approvals:

Verification of suitability

- für Staubexplosionsschutz für Zone 21/22
- for gas explosion protection for zone 1/2

CE/UL/CSA/CCC

no

no

General Product Approval



For use in hazardous locations

Declaration of Conformity













Test Certificates

other

Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval







GL







Shipping Approval

other





other

UL/CSA ratings

yielded mechanical performance (hp)		
for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	1.5
• at 230 V / rated value	hp	3
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	5
• 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

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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
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	50
Proportion of dangerous failures		
• with low demand rate / according to SN 31920	%	40
• with high demand rate / according to SN 31920	%	40
Protection against electrical shock		finger-safe

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

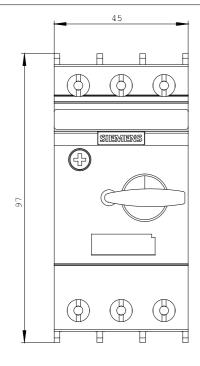
http://www.siemens.com/cax

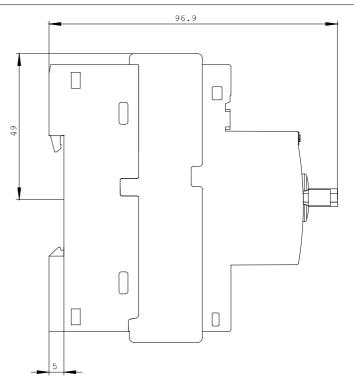
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

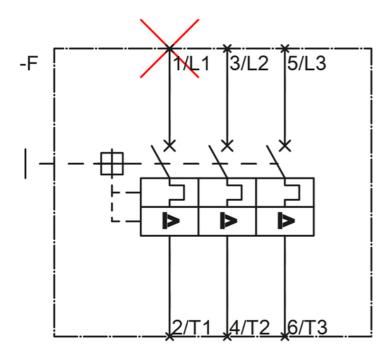
http://support.automation.siemens.com/WW/view/en/3RV2021-4BA10/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-4BA10}$







last change: Sep 12, 2012