SIEMENS

Product data sheet

3RV2021-4DA10



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 20...25A, N-RELEASE 325A, SCREW CONNECTION, STANDARD SW. CAPACITY,

General technical data:				
product brand name		SIRIUS		
product designation		3RV2 circuit breaker		
Size of the circuit-breaker		SO		
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	10.4		
Item designation				
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F		
according to DIN EN 61346-2		F		

Mechanical operating cycles as operating time		
of the main contacts / typical		100,000
 of the auxiliary contacts / typical 		100,000
Type of the driving mechanism / motor drive		No
Design of the operating mechanism		selector switch
Product function		
overload protection		Yes
phase disturbance recognition		Yes
Product component		
auxiliary switch		No
undervoltage release mechanism		No
trip indicator		No
Product extension / optional / motor drive		No
Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	А	22
Service power / at AC-3		
• at 400 V / rated value	W	11,000
• at 500 V / rated value	W	15,000
• at 690 V / rated value	W	22,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		Top and bottom
Adjustable response current		
 of the non-delayed short-circuit release 	А	325 325
 of the current-dependent overload release 	А	20 25
Service power / at AC-3 / at 230 V / rated value	W	5,500
Continuous current / rated value	А	25
Auxiliary circuit:		
Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts / instantaneous switching		0
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Number of change-over switches / for auxiliary contacts		0
Inputs/ Outputs:		
Number of digital inputs		

Short-circuit:		
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
Design of the overcurrent release and short-circuit release		thermomagnetic
Installation/mounting/dimensions:		
Built in orientation		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				2x (1	2.5 mm²), 2x (2.5	10 mm²)
 finely strand 	ded					
• with con-	ductor end processing			2x (1	2.5 mm²), 2x (2.5	6 mm²), 1x 10 mm²
 for AWG cond 	uctors / for main contacts			2x (16	12), 2x (14 8)	
Certificates/app	provals:					
Verification of su	itability			CE / UL	. / CSA	
für Staubexplo	osionsschutz für Zone 21/2	22		no		
 for gas explosi 	ion protection for zone 1/2	2		no		
General Produc	t Approval				For use in hazar	dous locations
	CSA	GOST			KEx ATEX	
Test Certificates	5					
other	Special Test Certificate	Type Test Certificates/Test Report				
Shipping Appro	val					
ABS	GL	Lloyd's Register Lrs	PRS		RINA	RMRS
other						
	Declaration of Conformity	other				
UI /CSA ratings						

UL/CSA ratings		
yielded mechanical performance (hp)		
 for single-phase squirrel cage motors 		
• at 110/120 V / rated value	hp	2
• 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	7.5
• at 460/480 V / rated value	hp	15
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	А	21
• at 480 V / rated value	А	21

Safety:	
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)

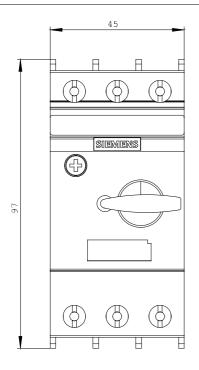
http://www.siemens.com/industrial-controls/mall

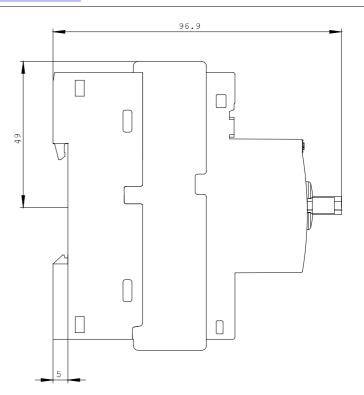
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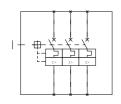
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2021-4DA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-4DA10







last change:

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