# 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		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	10.4
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		F
according to DIN EN 61346-2		F

• of the main contacts / typical     • of the auxiliary contacts / typical  Type of the driving mechanism / motor drive  Design of the operating mechanism  Product function  • overload protection	100,000 100,000 No selector switch Yes
Type of the driving mechanism / motor drive         Design of the operating mechanism         Product function	No selector switch
Design of the operating mechanism Product function	selector switch
Product function	
	Yes
• overload protection	Yes
- ovenodu protection	
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
Dperating voltage / at AC-3 / rated value / maximum	690
Dperating current / at AC-3 / at 400 V / rated value A	25
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 / 1/h naximum	15
Arrangement of electrical connectors / for main current circuit	Top and bottom
Adjustable response current	
• of the non-delayed short-circuit release A	325 325
• of the current-dependent overload release A	20 25
Service power / at AC-3 / at 230 V / rated value W	5,500
Continuous current / rated value A	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
nputs/ Outputs:	
Number of digital inputs	0

Short-circuit:				
Breaking capacity limit short-circuit current (Icu)				
• 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:				
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				

				0.11		
• solid				2x (1 .	2.5 mm²), 2x (2.5	o 10 mm²)
finely stranded				o (1		
	or end processing					5 6 mm²), 1x 10 mm²
for AWG conducto	rs / for main contact	S		2x (16	12), 2x (14 8)	
Certificates/approv	/als:					
Verification of suitability				CE / U	L/CSA/CCC	
für Staubexplosionsschutz für Zone 21/22				no		
<ul> <li>for gas explosion p</li> </ul>	protection for zone 1	/2		no		
General Product Ap	proval				For use in hazardous locations	Declaration of Conformity
	CSA	GOST			KEX ATEX	EG-Konf.
Test Certificates						
other	Special Test Certificate	<u>Type Test</u> Certificates/Test <u>Report</u>				
Shipping Approval						
ABS	BUREAU VERITAS	GL	Llovd's Kegister LRS		PRS	RINA
Shipping Approval	other					
RMRS		<u>other</u>				
UL/CSA ratings						
yielded mechanical p	erformance (hp)					
• for single-phase so	quirrel cage motors					
• at 110/120 V / r	ated value		hp	2		
• at 230 V / rated	value		hp	3		
<ul> <li>for three-phase sq</li> </ul>	uirrel cage motors					
• at 200/208 V / r	ated value		hp	5		
• at 220/230 V / r	ated value		hp	7.5		
• at 460/480 V / rated value			hp	15		
Operating current (FL	_A) / for three-phas	e squirrel cage motors				
• at 480 V / rated va	lue		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

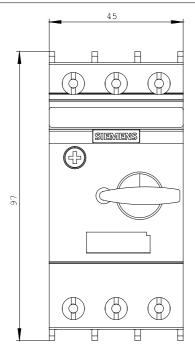
#### **CAx-Online-Generator**

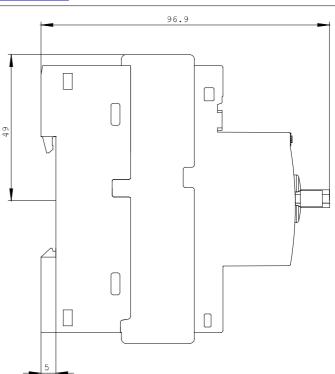
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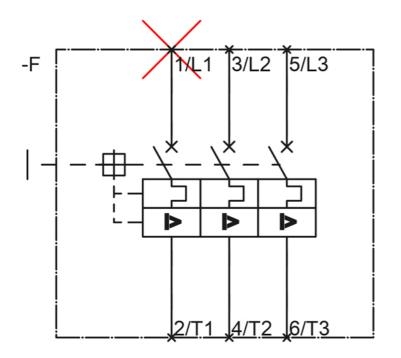
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2021-4DA10/all

## 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:

Sep 12, 2012