

Product data sheet 3RV2021-4CA10

CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 17...22A, N-RELEASE 286A, SCREW CONNECTION,

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 / frontal/front side		IP20
Degree of pollution		3
Altitude of installation site / at a height over sea level /		2,000
maximum	m	2,000
Ambient temperature		
during storage	°C	-50 80
during the operating phase	°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
Real loss power / total / typical	W	8
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
Mechanical switching cycle as operating period		
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
Short-circuit to earth recognition		No
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 3 AC / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	Α	22
Service power / at AC-3		
• at 400 V / rated value	W	11,000
at 500 V / rated value	W	11,000
at 690 V / rated value	W	18,500
Switching frequency / 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 current-dependent overload release	Α	17 22
Service power / at AC-3 / at 230 V / rated value	W	5,500
Continuous current / rated value	Α	22
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 contact		0
Inputs/ Outputs:		
Number of digital inputs		0
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:		
built in orientation		any
Type of fixing/fixation		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Width	- mm	45
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leight	mm	97
Depth	mm	91
listance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• downwards	mm	50
• sidewards	mm	0
listance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• sidewards	mm	30
• downwards	mm	50
listance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• downwards	mm	50
• sidewards	mm	30
• downwards		

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	
• unifilar	2x (1 2.5 mm2), 2x (2.5 10 mm2)
stranded wire	2x (1 2.5 mm2), 2x (2.5 10 mm2)
stranded wire	
<ul> <li>with conductor end processing</li> </ul>	2x (1 2.5 mm2), 2x (2.5 6 mm2), 1x 10 mm2
• at AWG-conductors / for main contacts	2x (16 12), 2x (14 8)

Certificates/approvals:			
verification of suitability	CE / UL / CSA		
• für Staubexplosionsschutz für Zone 21/22	no		
• for gas explosion protection for zone 1/2	no		

## Safety:

	50,000
а	10
FIT	50
%	40
%	40
	finger-safe
_	FIT %

## Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Global Industry Mall (Online ordering system)

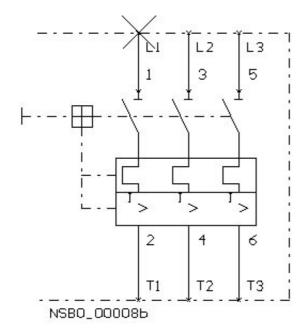
http://www.siemens.com/industrial-controls/mall

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

http://support.automation.siemens.com/WW/view/en/3RV2021-4CA10/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2021-4CA10



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