SIEMENS

Data sheet 3RV2021-0KA10



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.9...1.25A, N-REL. 16A SCREW CONNECTION, STANDARD SW. CAPACITY

Figure similar

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:		
Active power loss total typical	W	6
Insulation voltage		
 with degree of pollution 3 Rated value 	V	690
Shock resistance		
• acc. to IEC 60068-2-27		25g / 11 ms
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
 of the main contacts typical 		100 000
 of the auxiliary contacts typical 		100 000
Electrical endurance (switching cycles)		
• typical		100 000
Temperature compensation	°C	-20 + 60
Size of contactor can be combined company-specific		S2
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Type of protection		Increased safety
Equipment marking		
• acc. to DIN EN 81346-2		Q

Main circuit:		
Number of poles for main current circuit	3	

dependent overload release	A	0.8 1.23
Operating voltage		
Rated value	V	690
at AC-3 Rated value maximum	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	Α	1.25
Operating current		
• at AC-3		
— at 400 V Rated value	Α	1.25
Operating power		
• at AC-3		
— at 230 V Rated value	W	180
— at 400 V Rated value	W	370
— at 500 V Rated value	W	370
— at 690 V Rated value	W	750
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		0
Number of NO contacts		
for auxiliary contacts		0
Number of CO contacts		
for auxiliary contacts		0
Product expansion Auxiliary switch		Yes
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
Operational short-circuit current breaking capacity		
(Ics) with AC		400
• at 240 V Rated value	kA	100
• at 400 V Rated value	kA	100
● at 500 V Rated value	kA	100
• at 690 V Rated value	kA	100
Maximum short-circuit current breaking capacity (Icu)		
with AC at 240 V Rated value	kA	100
• with AC at 400 V Rated value	kA	100
 with AC at 500 V Rated value 	kA	100
• with AC at 690 V Rated value	kA	100
Breaking capacity short-circuit current (lcn)		
 with 1 current path for DC at 150 V Rated value 	kA	10

0.9 ... 1.25

Adjustable response value current of the current-

— downwards	mm	50
— at the side	mm	30

— at the side	mm	30	
Connections/ Terminals:			
Type of electrical connection			
• for main current circuit		screw-type terminals	
Arrangement of electrical connectors for main current circuit		Top and bottom	
Product function			
 removable terminal for auxiliary and control circuit 		No	
Type of connectable conductor cross-section			
• for main contacts			
 single or multi-stranded 		2x (1 2,5 mm²), 2x (2,5 10 mm²)	
 finely stranded with core 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)	
Tightening torque			
 for main contacts with screw-type terminals 	N·m	2 2.5	
Design of screwdriver shaft		Diameter 5 to 6 mm	
Design of the thread of the connection screw			
• for main contacts		M4	
Safety related data:			
B10 value with high demand rate acc. to SN 31920		50 000	
Proportion of dangerous failures			
• with low demand rate acc. to SN 31920	%	40	
• with high demand rate acc. to SN 31920	%	40	
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	50	
T1 value for proof test interval or service life acc. to	у	10	

	50 000
%	40
%	40
FIT	50
У	10
	finger-safe
	% FIT

Size of the circuit-preaker		50
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
during operation	°C	-20 + 60
during storage	°C	-50 + 80
during transport	°C	-50 + 80
Relative humidity during operation	%	10 95

Mechanical data:

Display version

• for switching status

Handle

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Test Certificates











Special Test Certificate

Test Certificates

Shipping Approval

Declaration of the Compliance with the order

Type Test
Certificates/Test
Report









GL

Shipping Approval











other

Confirmation

Environmental Confirmations

other



other

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV20210KA10} \\$

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

http://support.automation.siemens.com/WW/view/en/3RV20210KA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20210KA10&lang=en



