



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.55...0.8A, N-REL. 10A 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	V	690
<ul style="list-style-type: none"> with degree of pollution 3 Rated value 		
Shock resistance		25g / 11 ms
<ul style="list-style-type: none"> acc. to IEC 60068-2-27 		
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
<ul style="list-style-type: none"> of the main contacts typical 		100 000
<ul style="list-style-type: none"> of the auxiliary contacts typical 		100 000
Electrical endurance (switching cycles)		
<ul style="list-style-type: none"> typical 		100 000
Temperature compensation	°C	-20 ... +60
Size of contactor can be combined company-specific		S2
Protection class IP		
<ul style="list-style-type: none"> on the front 		IP20
<ul style="list-style-type: none"> of the terminal 		IP20
Type of protection		Increased safety
Equipment marking		
<ul style="list-style-type: none"> acc. to DIN EN 81346-2 		Q

Main circuit:	
Number of poles for main current circuit	3

Adjustable response value current of the current-dependent overload release	A	0.55 ... 0.8
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	A	0.8
Operating current		
• at AC-3		
— at 400 V Rated value	A	0.8
Operating power		
• at AC-3		
— at 230 V Rated value	W	120
— at 400 V Rated value	W	180
— at 500 V Rated value	W	250
— at 690 V Rated value	W	370
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		
• 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 (Icn)		
• with 1 current path for DC at 150 V Rated value	kA	10

<ul style="list-style-type: none"> with 2 current paths in series for DC at 300 V Rated value 	kA	10
<ul style="list-style-type: none"> with 3 current paths in series for DC at 450 V Rated value 	kA	10
Response value current of the instantaneous short-circuit release	A	10

UL/CSA ratings:

Full-load current (FLA) for three-phase AC motor		
<ul style="list-style-type: none"> at 480 V Rated value 	A	0.8
<ul style="list-style-type: none"> at 600 V Rated value 	A	0.8

Short-circuit:

Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic

Installation/ mounting/ dimensions:

mounting position		any
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	mm	97
Width	mm	45
Depth	mm	96
Required spacing		
<ul style="list-style-type: none"> with side-by-side mounting <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side for grounded parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — at the side — downwards for live parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side 	mm	0 0 50 50 0 0 0 50 30 50 0 0 50 50 30

Connections/ Terminals:

Type of electrical connection		
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<ul style="list-style-type: none"> • for main current circuit 		screw-type terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		No
<ul style="list-style-type: none"> • removable terminal for auxiliary and control circuit 		
Type of connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — single or multi-stranded — finely stranded with core end processing • for AWG conductors for main contacts 		2x (1 ... 2,5 mm ²), 2x (2,5 ... 10 mm ²) 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²), 1x 10 mm ² 2x (16 ... 12), 2x (14 ... 8)
Tightening torque		
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • for main contacts 		M4

Safety related data:

B10 value with high demand rate acc. to SN 31920		50 000
Proportion of dangerous failures		
<ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 	%	40
<ul style="list-style-type: none"> • 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 IEC 61508	y	10
Protection against electrical shock		finger-safe

Mechanical data:

Size of the circuit-breaker		S0
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Ambient conditions:





Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
<ul style="list-style-type: none"> • during operation 	°C	-20 ... +60
<ul style="list-style-type: none"> • during storage 	°C	-50 ... +80
<ul style="list-style-type: none"> • during transport 	°C	-50 ... +80
Relative humidity during operation	%	10 ... 95





Display:


Display version		
<ul style="list-style-type: none"> • for switching status 		Handle

Certificates/ approvals:

General Product Approval				Declaration of Conformity	Test Certificates
 CCC	 CSA	 UL		 EG-Konf.	Type Test Certificates/Test Report

Test Certificates		Shipping Approval			
Special Test Certificate	Declaration of the Compliance with the order	 ABS	 BUREAU VERITAS	 DNV	 GL

Shipping Approval				other	
 LRS	 PRS	 RINA	 RMRS	Environmental Confirmations	Confirmation

other	
 VDE	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

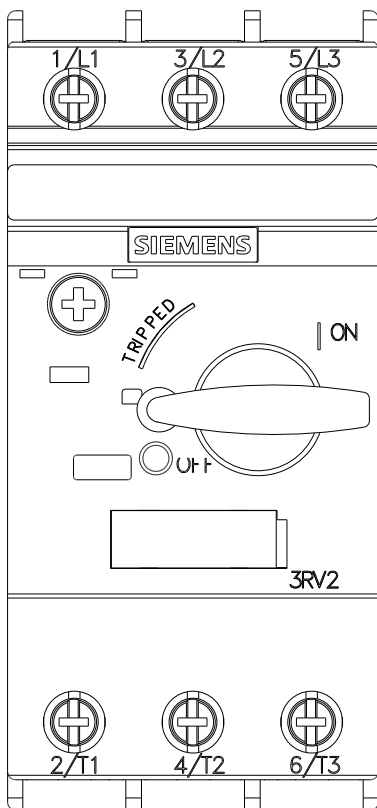
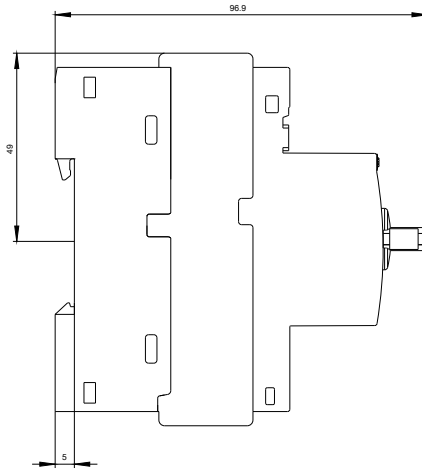
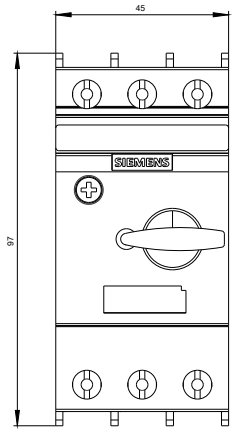
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20210HA10>

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

<http://support.automation.siemens.com/WW/view/en/3RV20210HA10/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=3RV20210HA10&lang=en





last modified:

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