



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.18...0.25A, N-RELEASE3.3A SPRING-L. CONNECTION STANDARD SW. CAPACITY

product brand name		SIRIUS
Product designation		3RV2 circuit breaker

General technical data:

Active power loss total typical	W	5
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		S00
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
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Adjustable response value current of the current-dependent overload release	A	0.18 ... 0.25
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	0.25
Operating current		
• at AC-3		
— at 400 V Rated value	A	0.25
Operating power		
• at AC-3		
— at 230 V Rated value	W	40
— at 400 V Rated value	W	60
— at 500 V Rated value	W	90
— at 690 V Rated value	W	120
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	3.3

UL/CSA ratings:

Full-load current (FLA) for three-phase AC motor		
<ul style="list-style-type: none"> • at 480 V Rated value 	A	0.25
<ul style="list-style-type: none"> • at 600 V Rated value 	A	0.25

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	106
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 		spring-loaded terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function <ul style="list-style-type: none"> • removable terminal for auxiliary and control circuit 		No
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 — finely stranded without core end processing • for AWG conductors for main contacts 		2x (0,5 ... 4 mm ²) 2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 2.5 mm ²) 2x (20 ... 12)
Design of screwdriver shaft		Diameter 5 to 6 mm

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 • 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		S00
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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 • during storage • during transport 	°C	-20 ... +60
	°C	-50 ... +80
	°C	-50 ... +80
Relative humidity during operation	%	10 ... 95

Display:

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

General Product Approval	Declaration of Conformity	Test Certificates
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[Special Test Certificate](#)

Test Certificates	Shipping Approval
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[Type Test Certificates/Test Report](#)

[Declaration of the Compliance with the order](#)



Shipping Approval	other
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[Environmental Confirmations](#)

[Confirmation](#)

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

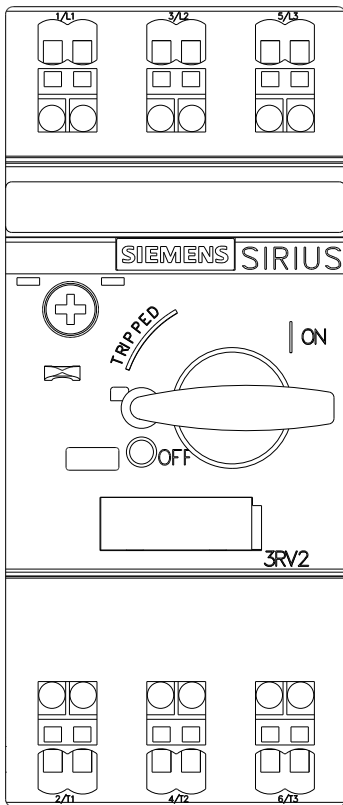
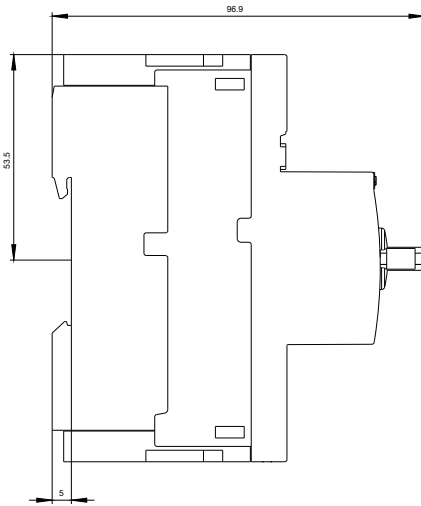
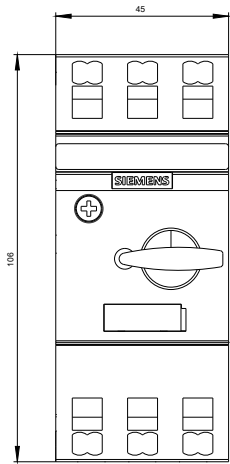
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20110CA20>

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

<http://support.automation.siemens.com/WW/view/en/3RV20110CA20/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=3RV20110CA20&lang=en





last modified:

11.03.2015