



CIRCUIT-BREAKER SZ S0, FOR STARTER COMBINATION, RATED CURRENT 10A, N-REL. 130A SPRING-L. CONNECTION, STANDARD SW. CAPACITY

Figure similar

product brand name		SIRIUS
Product designation		3RV2 circuit breaker

General technical data:

Active power loss total typical	W	7
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
Protection class IP		
<ul style="list-style-type: none"> on the front 		IP20
<ul style="list-style-type: none"> of the terminal 		IP20
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
Operating voltage		
<ul style="list-style-type: none"> Rated value 	V	690
<ul style="list-style-type: none"> at AC-3 Rated value maximum 	V	690

Operating frequency Rated value	Hz	50 ... 60
Operating current Rated value	A	10
Operating current		
• at AC-3		
— at 400 V Rated value	A	10
Operating power		
• at AC-3		
— at 230 V Rated value	W	2 200
— at 400 V Rated value	W	4 000
— at 500 V Rated value	W	5 500
— at 690 V Rated value	W	7 500
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:

Operational short-circuit current breaking capacity (Ics) with AC		
• at 240 V Rated value	kA	100
• at 400 V Rated value	kA	42
• at 500 V Rated value	kA	42
• at 690 V Rated value	kA	4
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	42
• with AC at 690 V Rated value	kA	6
Breaking capacity short-circuit current (Icn)		
• with 1 current path for DC at 150 V Rated value	kA	10
• with 2 current paths in series for DC at 300 V Rated value	kA	10
• 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	130

UL/CSA ratings:

Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	A	10
• at 600 V Rated value	A	10
yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated value	metric hp	0.5
• for single-phase AC motor at 230 V Rated value	metric hp	1.5
• for three-phase AC motor at 200/208 V Rated value	metric hp	2
• for three-phase AC motor at 220/230 V Rated value	metric hp	3
• for three-phase AC motor at 460/480 V Rated value	metric hp	5
• for three-phase AC motor at 575/600 V Rated value	metric hp	7.5

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	109
Width	mm	45
Depth	mm	96
Required spacing		
• with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— at the side	mm	30
— downwards	mm	50
• for live parts		
— forwards	mm	0

— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	30

Connections/ Terminals:

Type of electrical connection		
<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 (1 ... 10 mm ²) 2x (1 ... 6 mm ²) 2x (1 ... 6 mm ²) 2x (18 ... 8)
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 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 • during storage • during transport 	°C	-20 ... +60 -50 ... +80 -50 ... +80
Relative humidity during operation	%	10 ... 95

Display:

Display version

- for switching status

Handle

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Test Certificates



[KTL](#)



[Special Test
Certificate](#)

Test Certificates

Shipping Approval

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

[Type Test
Certificates/Test
Report](#)



Shipping Approval

other



[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

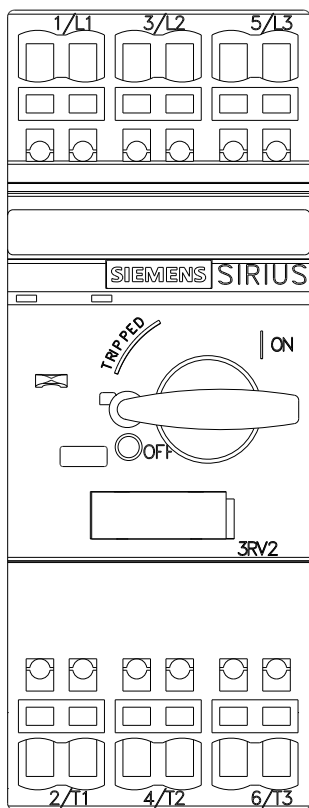
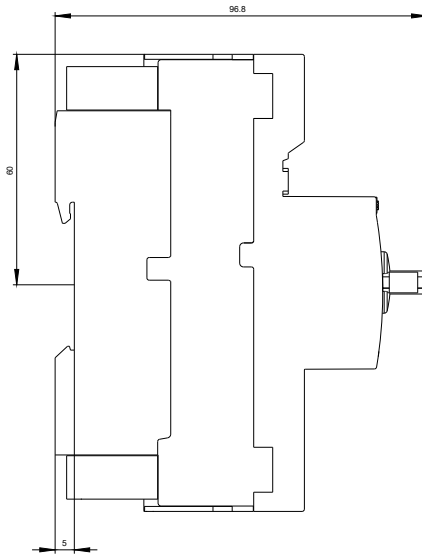
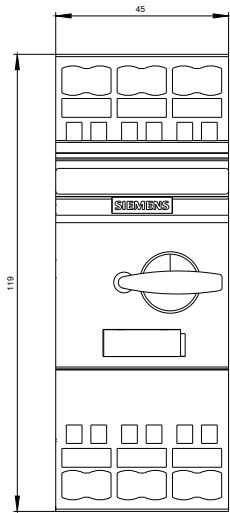
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV23211JC20>

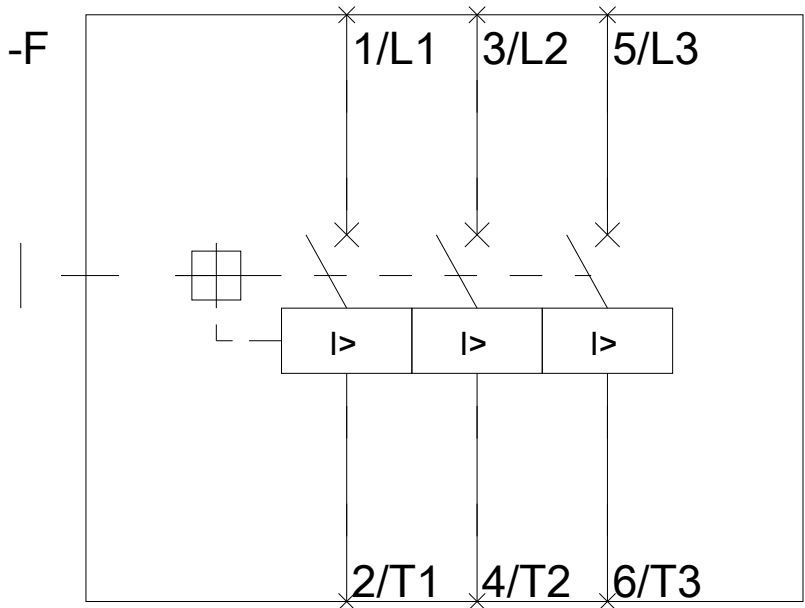
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV23211JC20/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=3RV23211JC20&lang=en





last modified:

11.03.2015