



CIRCUIT-BREAKER SZ S0,
FOR MOTOR PROTECTION, CLASS 10,
A-RELEASE 14...20A, N-RELEASE 260A,
SPRING-L. CONNECTION,
STANDARD SW. CAPACITY,

General technical data:	
product brand name	SIRIUS
Product designation	3RV2 circuit breaker
Size of the circuit-breaker	S0
Number of poles / for main current circuit	3
Product function	
• short circuit protection	Yes
• overload protection	Yes
• phase disturbance recognition	Yes
• plant protection	Yes
• motor protection	Yes
• motor protection with relays overload functionality	No
• starter protection	No
• transformer protection	No
• disconnecter functionality	Yes
• main control switches with supply disconnect function and EM-STOP switches	No
Design of the operating mechanism	selector switch
Product component	
• auxiliary switch	No
• undervoltage release mechanism	No

• trip indicator		No
Product extension		
• auxiliary switch		Yes
• optional / motor drive		No
Insulation voltage / with degree of pollution 3 / rated value	V	690
Impulse voltage resistance / rated value	kV	6
Protection class IP		
• of the terminal		IP20
• on the front		IP20
Protection against electrical shock		finger-safe
Installation altitude / at a height over sea level / maximum	m	2,000
Relative humidity		
• during operating phase	%	10 ... 95
Ambient temperature		
• during transport	°C	-50 ... +80
• during storage	°C	-50 ... +80
• during operating	°C	-20 ... +60
Shock resistance / according to IEC 60068-2-27		25g / 11 ms
Usage category		
• according to IEC 60947-4-1		AC-3
Active power loss / total / typical	W	9.6

Main circuit:

Operating voltage / rated value	V	690
Voltage type / for main circuit		AC/DC
Operating frequency		
• rated value	Hz	50 ... 60
Operating current / at AC-3 / at 400 V / rated value	A	20

Protective and monitoring functions:

Type of protection		Increased safety
Verification of suitability / ATEX		Yes
Design of the overload circuit breaker		thermal
Adjustable response current / of the current-dependent overload release	A	14 ... 20
Trip class		CLASS 10
Design of the short-circuit trip		magnetic
Operational short-circuit current breaking capacity (Ics) / with AC		
• at 240 V / rated value	kA	100

<ul style="list-style-type: none"> • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value 	kA	25
	kA	5
	kA	2
Breaking capacity maximum short-circuit current (Icu)		
<ul style="list-style-type: none"> • at 240 V / for AC / rated value • at 400 V / for AC / rated value • at 500 V / for AC / rated value • at 690 V / for AC / rated value 	kA	100
	kA	55
	kA	10
	kA	4
Design of fuse insert / for IT network / for short-circuit protection of the main circuit		
<ul style="list-style-type: none"> • at 400 V • at 500 V • at 690 V 		gL/gG 63 A
		gL/gG 50 A
		gL/gG 50 A
Breaking capacity short-circuit current (Icn)		
<ul style="list-style-type: none"> • with 1 current path / at 150 V / for DC / rated value • with 2 current paths in series / at 300 V / for DC / rated value • with 3 current paths in series / at 450 V / for DC / rated value 	kA	10
	kA	10
	kA	10

Installation/ mounting/ dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
mounting position		any
Depth	mm	96
Height	mm	119
Width	mm	45

Connections/ terminals:

Arrangement of electrical connectors / for main current circuit		Top and bottom
Design of the electrical connection / for main current circuit		spring-loaded terminals
Type of the connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> • solid or multi-stranded • finely stranded <ul style="list-style-type: none"> • without conductor final cutting • with conductor 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)

UL/CSA ratings:

Operating voltage / according to UL 60947 / rated value	V	600
Full-load current (FLA) / for 3-phase motor		
<ul style="list-style-type: none"> • at 480 V / rated value • at 600 V / rated value 	A	20
	A	20

Breaking capacity limit short-circuit current (Icu) / at 480 AC
Y/277 V / according to UL 489 / rated value

A

30

Certificates/ approvals:

General Product Approval



Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Shipping Approval



Shipping Approval

other



[Confirmation](#)

[other](#)

[Environmental Confirmations](#)

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

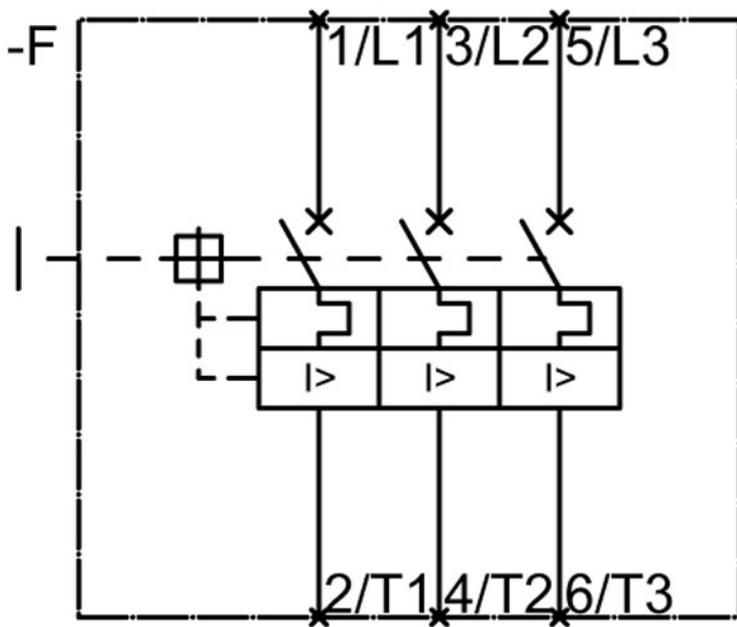
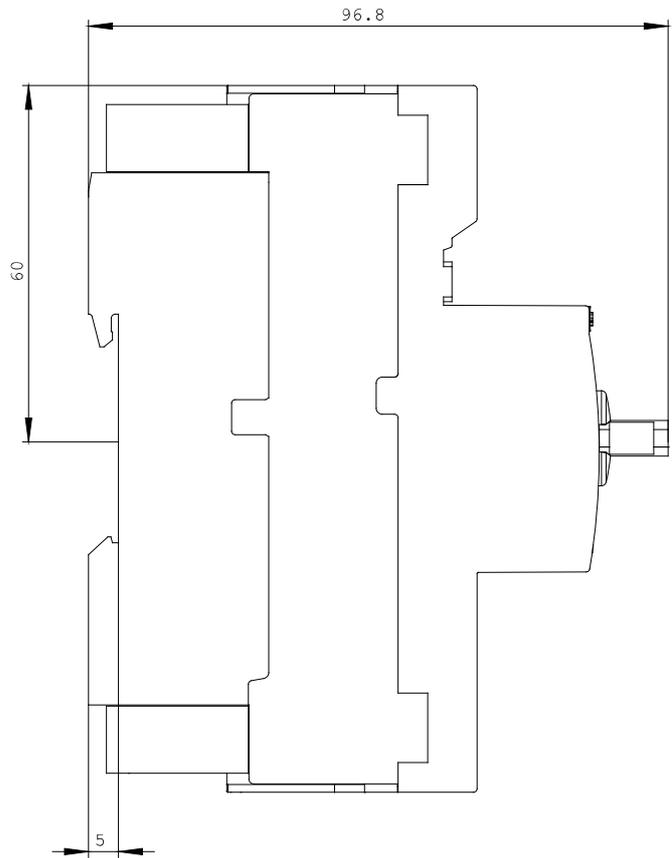
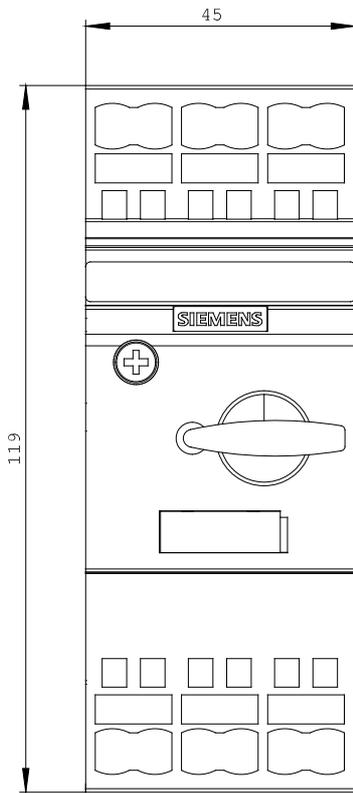
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WWW/view/en/3RV2023-4BA20/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2023-4BA20



last change:

Jul 28, 2014