



CIRCUIT-BREAKER SZ S0,
FOR MOTOR PROTECTION, CLASS 10,
A-REL. 9..12.5A, N-REL. 163A,
SCREW CONNECTION,
STANDARD SW. CAPACITY 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	
<ul style="list-style-type: none"> • short circuit protection • overload protection • phase disturbance recognition • plant protection • motor protection • motor protection with relays overload functionality • starter protection • transformer protection • disconnecter functionality • main control switches with supply disconnect function and EM-STOP switches 	<ul style="list-style-type: none"> Yes Yes Yes Yes Yes No No No Yes No
Design of the operating mechanism	selector switch
Product component	
<ul style="list-style-type: none"> • auxiliary switch • undervoltage release mechanism 	<ul style="list-style-type: none"> No 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	7.3

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	12.5

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	9 ... 12.5
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

• at 400 V / rated value	kA	42
• at 500 V / rated value	kA	42
• at 690 V / rated value	kA	4
Breaking capacity maximum short-circuit current (I_{cu})		
• at 240 V / for AC / rated value	kA	100
• at 400 V / for AC / rated value	kA	100
• at 500 V / for AC / rated value	kA	42
• at 690 V / for AC / rated value	kA	6
Breaking capacity short-circuit current (I_{cn})		
• with 1 current path / at 150 V / for DC / rated value	kA	10
• with 2 current paths in series / at 300 V / for DC / rated value	kA	10
• with 3 current paths in series / at 450 V / for DC / rated value	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	97
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		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid or multi-stranded		2x (1 ... 2,5 mm ²), 2x (2,5 ... 10 mm ²)
• finely stranded		
• with conductor end processing		2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²), 1x 10 mm ²
• for AWG conductors / for main contacts		2x (16 ... 12), 2x (14 ... 8)

UL/CSA ratings:

Operating voltage / according to UL 60947 / rated value	V	600
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	A	12.5
• at 600 V / rated value	A	12.5
Breaking capacity limit short-circuit current (I_{cu}) / at 480 AC Y/277 V / according to UL 489 / rated value	A	30

Certificates/ approvals:

General Product Approval	Declaration of Conformity	Test Certificates
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[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

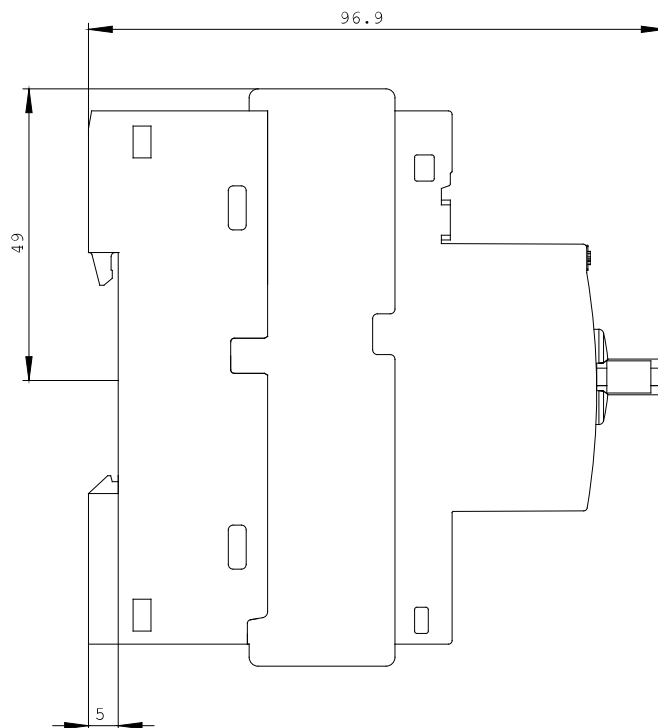
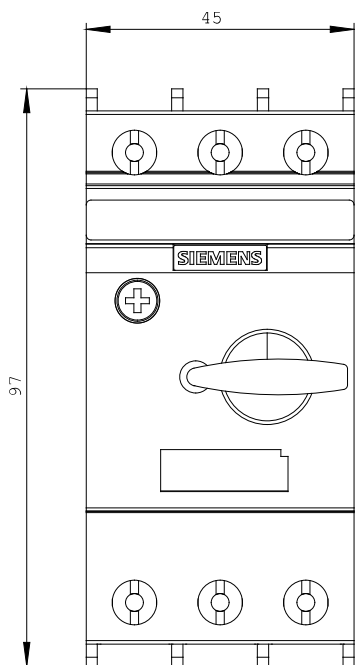
<http://www.siemens.com/cax>

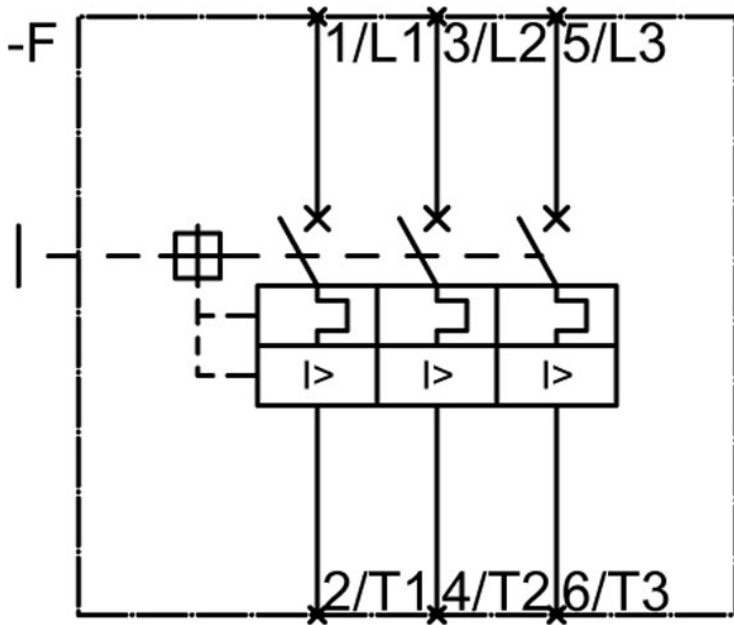
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV2023-1KA10/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2023-1KA10





last change:

Jul 28, 2014