



CIRCUIT-BREAKER SZ S0,  
FOR MOTOR PROTECTION, CLASS 10,  
A-REL.2.2...3.2A,  
N-REL. 42A SCREW 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 relais 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
<b>Product extension</b>		
• auxiliary switch		Yes
• optional / motor drive		No
<b>Insulation voltage / with degree of pollution 3 / rated value</b>	V	690
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Protection class IP</b>		
• of the terminal		IP20
• on the front		IP20
<b>Protection against electrical shock</b>		finger-safe
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Relative humidity</b>		
• during operating phase	%	10 ... 95
<b>Ambient temperature</b>		
• during transport	°C	-50 ... +80
• during storage	°C	-50 ... +80
• during operating	°C	-20 ... +60
<b>Shock resistance / according to IEC 60068-2-27</b>		25g / 11 ms
<b>Usage category</b>		
• according to IEC 60947-4-1		AC-3
<b>Active power loss / total / typical</b>	W	6.9

<b>Main circuit:</b>		
<b>Operating voltage / rated value</b>	V	690
<b>Voltage type / for main circuit</b>		AC/DC
<b>Operating frequency</b>		
• rated value	Hz	50 ... 60
<b>Operating current / at AC-3 / at 400 V / rated value</b>	A	3.2

<b>Protective and monitoring functions:</b>		
<b>Type of protection</b>		Increased safety
<b>Varification of suitability / ATEX</b>		Yes
<b>Design of the overload circuit breaker</b>		thermal
<b>Adjustable response current / of the current-dependent overload release</b>	A	2.2 ... 3.2
<b>Trip class</b>		CLASS 10
<b>Design of the short-circuit trip</b>		magnetic
<b>Operational short-circuit current breaking capacity (Ics) / with AC</b>		
• 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	10
<b>Breaking capacity maximum short-circuit current (Icu)</b>		
• 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	100
• at 690 V / for AC / rated value	kA	10
<b>Breaking capacity short-circuit current (Icn)</b>		
• 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:

<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
<b>mounting position</b>		any
<b>Depth</b>	mm	96
<b>Height</b>	mm	97
<b>Width</b>	mm	45

#### Connections/ terminals:

<b>Arrangement of electrical connectors / for main current circuit</b>		Top and bottom
<b>Design of the electrical connection / for main current circuit</b>		screw-type terminals
<b>Type of the connectable conductor cross-section</b>		
• for main contacts		
• solid or multi-stranded		2x (1 ... 2,5 mm²), 2x (2,5 ... 10 mm²)
• finely stranded		
• with conductor end processing		2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²
• for AWG conductors / for main contacts		2x (16 ... 12), 2x (14 ... 8)

#### UL/CSA ratings:

<b>Operating voltage / according to UL 60947 / rated value</b>	V	600
<b>Full-load current (FLA) / for 3-phase motor</b>		
• at 480 V / rated value	A	3.2
• at 600 V / rated value	A	3.2

#### 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

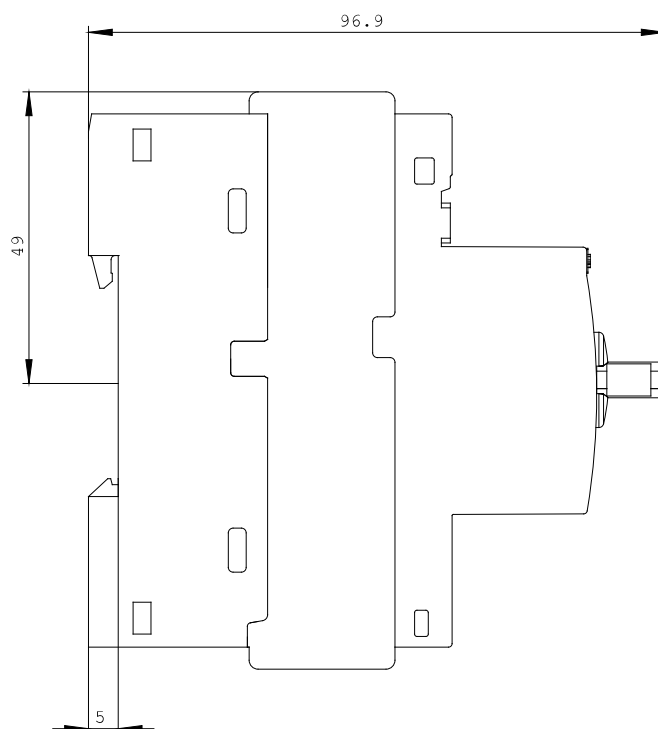
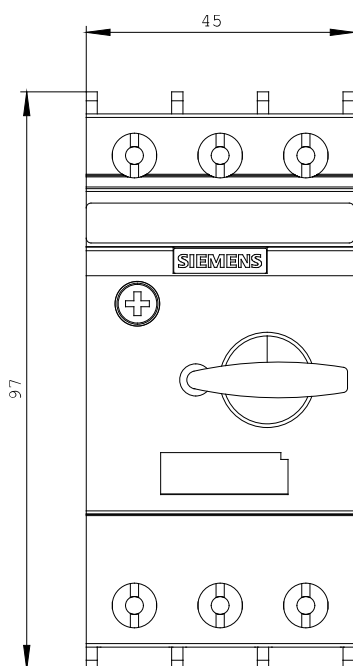
<http://www.siemens.com/cax>

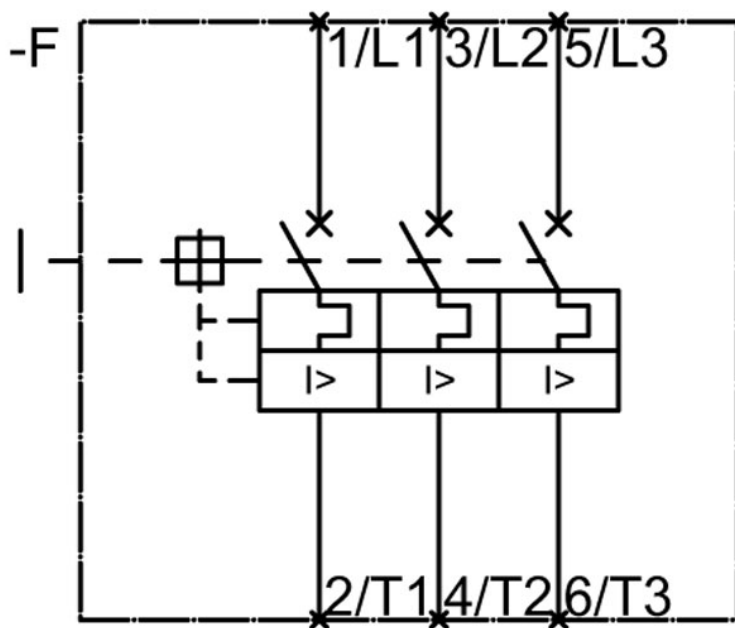
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV2021-1DA10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2021-1DA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-1DA10)





last change:

Aug 4, 2014