

CIRCUIT-BREAKER SZ S0,  
FOR STARTER COMBINATION,  
RATED CURRENT 6.3A,  
N-REL. 82A SCREW CONNECTION,  
STANDARD SW. CAPACITY

General technical data:	
<b>product brand name</b>	SIRIUS
<b>Product designation</b>	3RV2 circuit breaker
<b>Size of the circuit-breaker</b>	S0
<b>Number of poles / for main current circuit</b>	3
<b>Product function</b>	
• short circuit protection	Yes
• overload protection	No
• phase disturbance recognition	No
• plant protection	No
• motor protection	No
• motor protection with relays overload functionality	No
• starter protection	Yes
• transformer protection	No
• disconnecter functionality	Yes
• main control switches with supply disconnect function and EM-STOP switches	No
<b>Design of the operating mechanism</b>	selector switch
<b>Product component</b>	
• 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>Active power loss / total / typical</b>	W	6.7

#### Main circuit:

<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	6.3

#### Protective and monitoring functions:

<b>Varification of suitability / ATEX</b>		No
<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	4
<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	6
<b>Breaking capacity short-circuit current (I<sub>cn</sub>)</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 mm <sup>2</sup> ), 2x (2,5 ... 10 mm <sup>2</sup> )
• finely stranded		
• with conductor end processing		2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
• 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	6.3
• at 600 V / rated value	A	6.3

#### 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

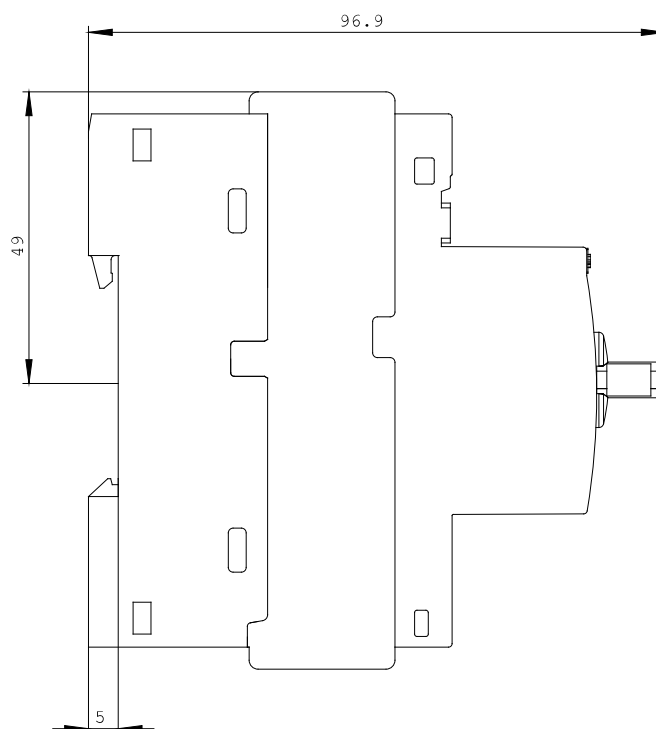
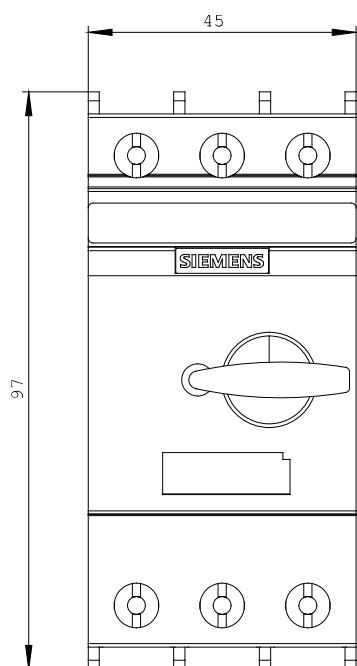
<http://www.siemens.com/cax>

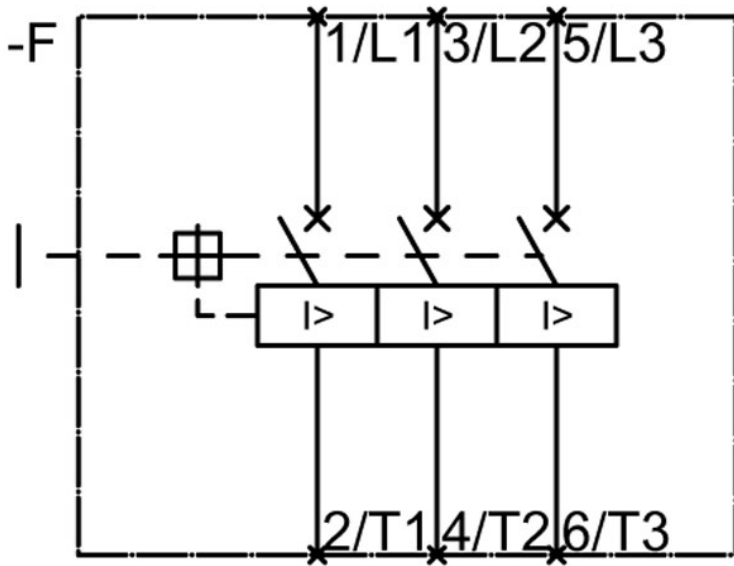
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV2321-1GC10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2321-1GC10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2321-1GC10)





last change:

Jul 28, 2014