



SIRIUS SOFT STARTER, SIZE S3, 100 A,  
55 KW / 400 V, AC 200...460 V,  
UC 110...230 V, SCREW CONNECTION

**General details:**

<b>Product brand name</b>		SIRIUS
<b>Product equipment</b>		
<ul style="list-style-type: none"> <li>integrated bridging contact system</li> </ul>		Yes
<ul style="list-style-type: none"> <li>thyristors</li> </ul>		Yes
<b>Product function</b>		
<ul style="list-style-type: none"> <li>intrinsic device protection</li> </ul>		No
<ul style="list-style-type: none"> <li>motor overload protection</li> </ul>		No
<ul style="list-style-type: none"> <li>evaluation of thermal resistor motor protection</li> </ul>		No
<ul style="list-style-type: none"> <li>Reset external</li> </ul>		No
<ul style="list-style-type: none"> <li>adjustable current limitation</li> </ul>		No
<ul style="list-style-type: none"> <li>inside-delta circuit</li> </ul>		No
<b>Product component / Outlet for enine brake</b>		No
<b>Item designation</b>		
<ul style="list-style-type: none"> <li>according to DIN EN 61346-2</li> </ul>		Q
<ul style="list-style-type: none"> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		G

**Power Electronics:**

<b>Product designation</b>		soft starters for standard applications
Operating current		

• at 40 °C / rated value	A	100
• at 50 °C / rated value	A	85
• at 60 °C / rated value	A	72
<b>Emitted mechanical power / for three-phase servomotors</b>		
• at 230 V / at standard switching / at 40 °C		
• rated value	kW	30
• at 400 V / at standard switching / at 40 °C		
• rated value	kW	55
<b>Yielded mechanical performance (hp) / for three-phase servomotors</b>		
• at 200 V / at standard switching		
• at 50 °C / rated value	hp	25
• at 230 V / at standard switching		
• at 50 °C / rated value	hp	30
• at 460 V / at standard switching		
• at 50 °C / rated value	hp	60
<b>Operating frequency</b>		
• rated value	Hz	50 ... 60
<b>Operating voltage / with standard circuit / rated value</b>	V	200 ... 460
<b>Active power loss / with operating current / at 40°C / during operating phase / typical</b>	W	12

#### Control electronics:

<b>Type of voltage / of the controlled supply voltage</b>		AC/DC
<b>control supply voltage frequency / 1 / rated value</b>	Hz	50
<b>control supply voltage frequency / 2 / rated value</b>	Hz	60
<b>Relative negative tolerance / of the control supply voltage frequency</b>	%	-10
<b>Relative positive tolerance / of the control supply voltage frequency</b>	%	10
<b>Control supply voltage / 1 / at 50 Hz / for AC</b>	V	110 ... 230
<b>Control supply voltage / 1 / at 60 Hz / for AC</b>	V	110 ... 230
<b>Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC</b>	%	-15
<b>Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC</b>	%	10
<b>Control supply voltage / 1 / for DC</b>	V	110 ... 230
<b>Relative negative tolerance / of the control supply voltage / for DC</b>	%	-15
<b>Relative positive tolerance / of the control supply voltage / for DC</b>	%	10
<b>Design of display / for fault signal</b>		red

**Mechanical design:**

<b>Size of the engine control device</b>		S3
<b>Width</b>	mm	70
<b>Height</b>	mm	170
<b>Depth</b>	mm	190
<b>Type of fixing/fixation</b>		screw and snap-on mounting
<b>built in orientation</b>		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
<b>distance, to be maintained, to the ranks assembly</b>		
• upwards	mm	60
• sideways	mm	30
• downwards	mm	40
<b>Cable length / maximum</b>	m	100
<b>Number of poles / for main current circuit</b>		3

**Electrical connections:**

<b>design of the electrical connection</b>		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
<b>Number of NC contacts / for auxiliary contact</b>		0
<b>Number of NO contacts / for auxiliary contact</b>		2
<b>Number of change-over switches / for auxiliary contact</b>		0
<b>Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point</b>		
• solid		2x (2.5 ... 16 mm <sup>2</sup> )
• finely stranded / with wire end processing		2.5 ... 35 mm <sup>2</sup>
• stranded		4 ... 70 mm <sup>2</sup>
<b>Type of the connectable conductor cross section / for main contacts / for box terminal / when using the back clamping point</b>		
• solid		2x (2.5 ... 16 mm <sup>2</sup> )
• finely stranded / with wire end processing		2.5 ... 50 mm <sup>2</sup>
• stranded		10 ... 70 mm <sup>2</sup>
<b>Type of the connectable conductor cross section / for main contacts / for box terminal / when using both clamping points</b>		
• solid		2x (2.5 ... 16 mm <sup>2</sup> )
• finely stranded / with wire end processing		2x (2.5 ... 35 mm <sup>2</sup> )
• stranded		2x (10 ... 50 mm <sup>2</sup> )

<b>Type of the connectable conductor cross section / for AWG conductors / for main contacts / for box terminal</b> <ul style="list-style-type: none"> <li>• when using the back clamping point</li> <li>• when using the front clamping point</li> <li>• when using both clamping points</li> </ul>		10 ... 2/0  10 ... 2/0  2x (10 ... 1/0)
<b>Type of connectable conductor cross section / for DIN cable lug / for main contacts</b> <ul style="list-style-type: none"> <li>• finely stranded</li> <li>• stranded</li> </ul>		2 x (10 ... 50 mm <sup>2</sup> ) 2x (10 ... 70 mm <sup>2</sup> )
<b>Type of the connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• at AWG-conductors / for main contacts</li> </ul>		2x (7 ... 1/0)
<b>Type of connectable conductor cross section</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded / with wire end processing</li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul>		2x (0.5 ... 2.5 mm <sup>2</sup> ) 2x (0.5 ... 1.5 mm <sup>2</sup> ) 2x (20 ... 14)

#### Ambient conditions:

<b>Ambient temperature</b> <ul style="list-style-type: none"> <li>• during the operating phase</li> <li>• during storage</li> </ul>	°C	-25 ... 60
	°C	-40 ... 80
<b>Derating temperature</b>	°C	40
<b>Protection class IP</b>		IP20

#### Safety:

<b>Proportion of dangerous failures</b> <ul style="list-style-type: none"> <li>• with high demand rate / according to SN 31920</li> <li>• with low demand rate / according to SN 31920</li> </ul>	%	50
	%	20
<b>Mean time to failure (MTTF) / with high demand rate</b> <ul style="list-style-type: none"> <li>• according to SN 31920</li> </ul>	a	138
<b>T1 value / for proof test interval or service life</b> <ul style="list-style-type: none"> <li>• according to IEC 61508</li> </ul>	a	20

#### Further information:

##### Information- and Downloadcenter (Catalogs, Brochures,...)

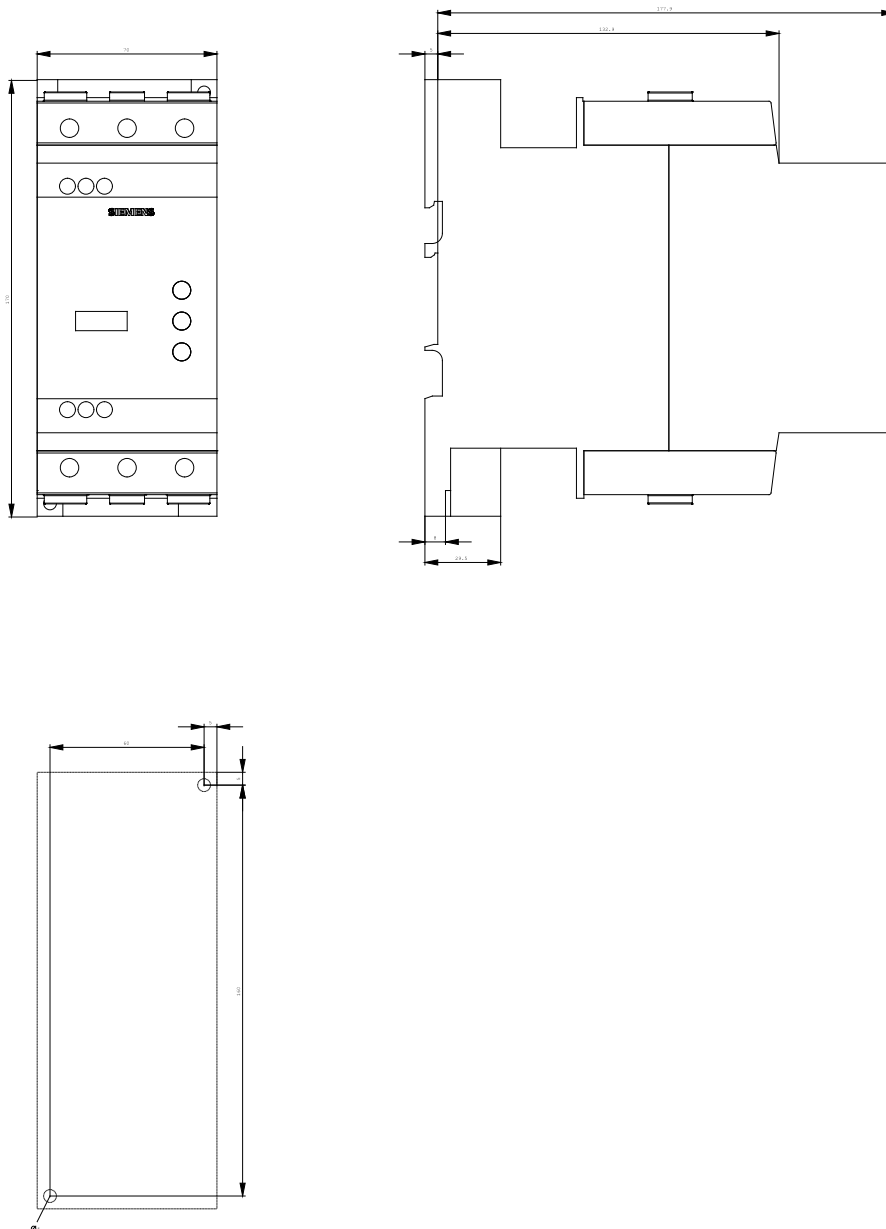
<http://www.siemens.com/industrial-controls/catalogs>

##### Global Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

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

<http://support.automation.siemens.com/WWW/view/en/3RW3046-1AB14/all>



last change:

Jul 9, 2010