



SIRIUS SOFT STARTER, VALUES WITH 400 V,  
40 DEG., STANDARD: 77A, 37KW,  
INSIDE-DELTA CIRCUIT 3: 133A, 75KW,  
200-460 V AC, 230 V AC, SCREW TERMINALS

### General details:

<b>Product brand name</b>		SIRIUS
<b>Product equipment</b>		
• integrated bridging contact system		Yes
• thyristors		Yes
<b>Product function</b>		
• intrinsic device protection		Yes
• motor overload protection		Yes
• evaluation of thermal resistor motor protection		Yes
• reset external		Yes
• adjustable current limitation		Yes
• inside-delta circuit		Yes
<b>Product component / outlet for engine brake</b>		Yes
<b>Item designation</b>		
• according to DIN EN 61346-2		Q
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		G

### Power Electronics:

<b>product designation</b>		soft starters for high feature applications
Operating current		

<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> <li>• at 50 °C / rated value</li> <li>• at 60 °C / rated value</li> <li>• for three-phase servomotors / at 3-phase root switching <ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> <li>• at 50 °C / rated value</li> <li>• at 60 °C / rated value</li> </ul> </li> </ul>	A	77
	A	68
	A	59
	A	133
	A	118
	A	102
<b>Emitted mechanical power / for three-phase servomotors</b>		
<ul style="list-style-type: none"> <li>• at 230 V / at standard switching / at 40 °C <ul style="list-style-type: none"> <li>• rated value</li> </ul> </li> <li>• at 400 V / at standard switching / at 40 °C <ul style="list-style-type: none"> <li>• rated value</li> </ul> </li> <li>• at 230 V / at 3-phase root switching / at 40 °C <ul style="list-style-type: none"> <li>• rated value</li> </ul> </li> <li>• at 400 V / at 3-phase root switching / at 40 °C <ul style="list-style-type: none"> <li>• rated value</li> </ul> </li> </ul>	W	18,500
	W	37,000
	W	37,000
	W	75,000
<b>yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated value</b>	hp	20
<b>Operating frequency</b>		
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	Hz	50 ... 60
<b>Relative negative tolerance / of the operating frequency</b>	%	-10
<b>Relative positive tolerance / of the operating frequency</b>	%	10
<b>Operating voltage / with standard circuit / rated value</b>	V	200 ... 460
<b>Relative negative tolerance / of the operating voltage / with standard circuit</b>	%	-15
<b>Relative positive tolerance / of the operating voltage / with standard circuit</b>	%	10
<b>Operating voltage / at 3-phase root switching / rated value</b>	V	200 ... 460
<b>Relative negative tolerance / of the operating voltage / with inside-delta circuit</b>	%	-15
<b>Relative positive tolerance / of the operating voltage / with inside-delta circuit</b>	%	10
<b>Minimum load in % of I<sub>M</sub></b>	%	8
<b>Adjustable rated current / of the motor / for motor overload protection / minimum</b>	A	15
<b>Continuous operating current in % of I<sub>e</sub> / at 40°C</b>	%	115
<b>Active power loss / at operating current / at 40°C / during operating phase / typical</b>	W	45
<b>Control electronics:</b>		
<b>Type of voltage / of the controlled supply voltage</b>		AC

Control supply voltage frequency / 1 / rated value	Hz	50
Control supply voltage frequency / 2 / rated value	Hz	60
Relative negative tolerance / of the control supply voltage frequency	%	-10
Relative positive tolerance / of the control supply voltage frequency	%	10
Control supply voltage / 1		
• at 50 Hz / for AC	V	230
• at 60 Hz / for AC	V	230
Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC	%	-15
Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC	%	10
Type of display / for fault signal		Display

<b>Mechanical design:</b>		
Width	mm	170
Height	mm	192
Depth	mm	270
Type of mounting		screw fixing
Built in orientation		bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar
Distance, to be maintained, to the ranks assembly		
• upwards	mm	100
• sideways	mm	5
• downwards	mm	75
Altitude of installation site / at a height over sea level	m	5,000
Cable length / maximum	m	500
Number of poles / for main current circuit		3







<b>Electrical connections:</b>		
Design of the electrical connection		
• for main current circuit		box terminals
• for auxiliary and control current circuit		screw-type terminals
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		3
Number of change-over switches / for auxiliary contacts		1
Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point		
• solid		2.5 ... 16 mm <sup>2</sup>
• finely stranded / with conductor end processing		2.5 ... 35 mm <sup>2</sup>
• finely stranded / without conductor end processing		4 ... 50 mm <sup>2</sup>

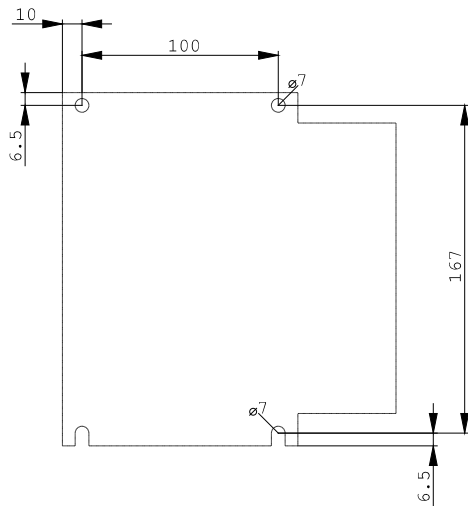
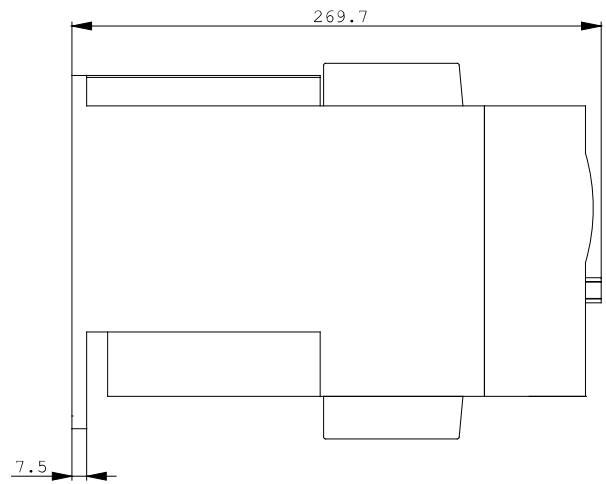
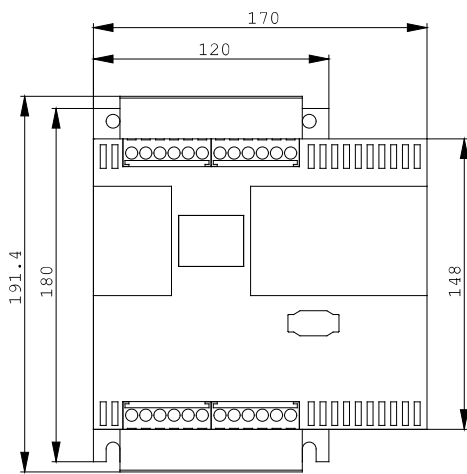
• stranded		4 ... 70 mm <sup>2</sup>
<b>Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point</b>		
• solid		2,5 ... 16 mm <sup>2</sup>
• finely stranded / with conductor end processing		2,5 ... 50 mm <sup>2</sup>
• without conductor final cutting / without conductor end processing		10 ... 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 conductor end processing		2x (2,5 ... 35 mm <sup>2</sup> )
• without conductor final cutting / without conductor end processing		2x (4 ... 35 mm <sup>2</sup> )
• stranded		2x (4 ... 50 mm <sup>2</sup> )
<b>Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal</b>		
• when using the back clamping point		10 ... 2/0
• when using the front clamping point		10 ... 2/0
• when using both clamping points		2x (10 ... 1/0)
<b>Type of the connectable conductor cross-section</b>		
• for auxiliary contacts		
• solid		2x (0,5 ... 2,5 mm <sup>2</sup> )
• finely stranded / with conductor end processing		2x (0,5 ... 1,5 mm <sup>2</sup> )
• for AWG conductors / for auxiliary contacts		2x (20 ... 14)
• finely stranded / with wire end processing		2x (20 ... 16)

#### Ambient conditions:

<b>Ambient temperature</b>		
• during operating	/ °C	60
• during storage	°C	-25 ... 80
<b>Derating temperature</b>	°C	40
<b>Protection class IP</b>		IP00

#### Certificates/approvals:

General Product Approval		Test Certificates	
 CSA	<a href="#">ROSTEST</a>	 UL	<a href="#">Manufacturer</a>
Shipping Approval			other
			 <a href="#">Manufacturer</a>
UL/CSA ratings			
<b>yielded mechanical performance (hp) / for three-phase squirrel cage motors</b> <ul style="list-style-type: none"><li>• at 220/230 V / at standard circuit<ul style="list-style-type: none"><li>• at 50 °C / rated value</li></ul></li><li>• at 460/480 V / at standard circuit<ul style="list-style-type: none"><li>• at 50 °C / rated value</li></ul></li><li>• at 200/208 V / at inside-delta circuit / at 50 °C / rated value</li><li>• at 220/230 V / at inside-delta circuit / at 50 °C / rated value</li><li>• at 460/480 V / at inside-delta circuit / at 50 °C / rated value</li></ul>		hp	20
		hp	50
		hp	30
		hp	40
		hp	75
Further information:			
<b>Information- and Downloadcenter (Catalogs, Brochures,...)</b> <a href="http://www.siemens.com/industrial-controls/catalogs">http://www.siemens.com/industrial-controls/catalogs</a>			
<b>Industry Mall (Online ordering system)</b> <a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>			
<b>CAX-Online-Generator</b> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>			
<b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b> <a href="http://support.automation.siemens.com/WW/view/en/3RW4426-1BC44/all">http://support.automation.siemens.com/WW/view/en/3RW4426-1BC44/all</a>			
<b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b> <a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4426-1BC44">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4426-1BC44</a>			



last change:

Aug 22, 2011