



SIRIUS SOFT STARTER, VALUES WITH 690 V, 40 DEG., STANDARD: 36A, 37KW, INSIDE-DELTA CIRCUIT 3: ONLY UP TO 600V, 400-690 V AC, 230 V AC, SCREW TERMINALS

### General technical data:

<b>product brand name</b>		SIRIUS
<b>Product feature</b>		
<ul style="list-style-type: none"> <li>integrated bypass 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>		Yes
<ul style="list-style-type: none"> <li>motor overload protection</li> </ul>		Yes
<ul style="list-style-type: none"> <li>Evaluation of thermistor motor protection</li> </ul>		Yes
<ul style="list-style-type: none"> <li>External reset</li> </ul>		Yes
<ul style="list-style-type: none"> <li>Adjustable current limitation</li> </ul>		Yes
<ul style="list-style-type: none"> <li>inside-delta circuit</li> </ul>		Yes
<b>Product component Motor brake output</b>		Yes
<b>Equipment marking acc. to DIN EN 61346-2</b>		Q
<b>Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</b>		G

### Power Electronics:

<b>Product designation</b>		soft starters for high feature applications
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>at 40 °C Rated value</li> </ul>	A	36
<ul style="list-style-type: none"> <li>at 50 °C Rated value</li> </ul>	A	32
<ul style="list-style-type: none"> <li>at 60 °C Rated value</li> </ul>	A	29
<b>Operating current for three-phase motors at 3-phase root switching</b>		
<ul style="list-style-type: none"> <li>at 40 °C Rated value</li> </ul>	A	62

• at 50 °C Rated value	A	55
• at 60 °C Rated value	A	50
<b>Mechanical power output for three-phase motors</b>		
• at 400 V		
— at standard circuit at 40 °C Rated value	W	18 500
— at 3-phase root switching at 40 °C Rated value	W	30 000
• at 500 V		
— at standard circuit at 40 °C Rated value	W	22 000
— at 3-phase root switching at 40 °C Rated value	W	37 000
• at 690 V at standard circuit at 40 °C Rated value	W	37 000
Operating frequency Rated value	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 at standard circuit Rated value</b>	V	400 ... 690
<b>Relative negative tolerance of the operating voltage at standard circuit</b>	%	-15
<b>Relative positive tolerance of the operating voltage at standard circuit</b>	%	10
<b>Operating voltage at 3-phase root switching Rated value</b>	V	400 ... 600
<b>Relative negative tolerance of the operating voltage at 3-phase root switching</b>	%	-15
<b>Relative positive tolerance of the operating voltage at 3-phase root switching</b>	%	10
<b>Minimum load in % of I<sub>M</sub></b>	%	8
<b>Adjustable motor current for motor overload protection minimum rated value</b>	A	7
<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 operation typical</b>	W	10

#### Control electronics:

<b>Type of voltage of the control supply voltage</b>		AC
<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 with AC</b>		
• at 50 Hz Rated value	V	230

<ul style="list-style-type: none"> <li>• at 60 Hz Rated value</li> </ul>	V	230
<b>Relative negative tolerance of the control supply voltage with AC at 60 Hz</b>	%	-15
<b>Relative positive tolerance of the control supply voltage with AC at 60 Hz</b>	%	10
<b>Display version for fault signal</b>		Display

Mechanical data:		
<b>Width</b>	mm	170
<b>Height</b>	mm	192
<b>Depth</b>	mm	270
<b>Mounting type</b>		screw fixing
<b>mounting position</b>		bei senkrechter Montageebene +/- 90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar
<b>Required spacing with side-by-side mounting</b>		
<ul style="list-style-type: none"> <li>• upwards</li> </ul>	mm	100
<ul style="list-style-type: none"> <li>• at the side</li> </ul>	mm	5
<ul style="list-style-type: none"> <li>• downwards</li> </ul>	mm	75
<b>Installation altitude at height above sea level</b>	m	5 000
<b>Cable length maximum</b>	m	500
<b>Number of poles for main current circuit</b>		3






Connections/ Terminals:		
<b>Type of electrical connection</b>		
<ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>		box terminals
<ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>		screw-type terminals
<b>Number of NC contacts for auxiliary contacts</b>		0
<b>Number of NO contacts for auxiliary contacts</b>		3
<b>Number of CO contacts for auxiliary contacts</b>		1
Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point		
<ul style="list-style-type: none"> <li>• solid</li> </ul>		2.5 ... 16 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>		2.5 ... 35 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded without core end processing</li> </ul>		4 ... 50 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• stranded</li> </ul>		4 ... 70 mm <sup>2</sup>
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
<ul style="list-style-type: none"> <li>• solid</li> </ul>		2,5 ... 16 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>		2.5 ... 50 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded without core end processing</li> </ul>		10 ... 50 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• stranded</li> </ul>		10 ... 70 mm <sup>2</sup>






<p>Type of connectable conductor cross-section for main contacts for box terminal using both clamping points</p> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> <li>• stranded</li> </ul>		<p>2x (2.5 ... 16 mm<sup>2</sup>)</p> <p>2x (2.5 ... 35 mm<sup>2</sup>)</p> <p>2x (4 ... 35 mm<sup>2</sup>)</p> <p>2x (4 ... 50 mm<sup>2</sup>)</p>
<p>Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal</p> <ul style="list-style-type: none"> <li>• using the back clamping point</li> <li>• using the front clamping point</li> <li>• using both clamping points</li> </ul>		<p>10 ... 2/0</p> <p>10 ... 2/0</p> <p>2x (10 ... 1/0)</p>
<p><b>Type of connectable conductor cross-section for auxiliary contacts</b></p> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> </ul>		<p>2x (0.5 ... 2.5 mm<sup>2</sup>)</p> <p>2x (0.5 ... 1.5 mm<sup>2</sup>)</p>
<p><b>Type of connectable conductor cross-section for AWG conductors</b></p> <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>• for auxiliary contacts finely stranded with core end processing</li> </ul>		<p>2x (20 ... 14)</p> <p>2x (20 ... 16)</p>


#### Ambient conditions:

<p><b>Ambient temperature</b></p> <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	<p>°C</p> <p>°C</p>	<p>60</p> <p>-25 ... +80</p>
<p><b>Derating temperature</b></p>	<p>°C</p>	<p>40</p>
<p><b>Protection class IP</b></p>		<p>IP00</p>

#### Certificates/ approvals:

General Product Approval			EMC	Declaration of Conformity	Test Certificates
 CSA	 UL		 C-TICK	 EG-Konf.	<a href="#">Type Test Certificates/Test Report</a>

Test Certificates	Shipping Approval				
<a href="#">Special Test Certificate</a>	 ABS	 BUREAU VERITAS	 DNV	 GL	 LRS

Shipping Approval	other
 PRS	<a href="#">Environmental Confirmations</a>

#### UL/CSA ratings:

yielded mechanical performance [hp] for three-phase AC motor		
<ul style="list-style-type: none"> <li>• at 460/480 V <ul style="list-style-type: none"> <li>— at standard circuit at 50 °C Rated value</li> <li>— at 3-phase root switching at 50 °C Rated value</li> </ul> </li> <li>• at 575/600 V <ul style="list-style-type: none"> <li>— at standard circuit at 50 °C Rated value</li> <li>— at 3-phase root switching at 50 °C Rated value</li> </ul> </li> </ul>	metric hp	20
	metric hp	40
	metric hp	25
	metric hp	50
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

#### Further information

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

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

**Industry Mall (Online ordering system)**

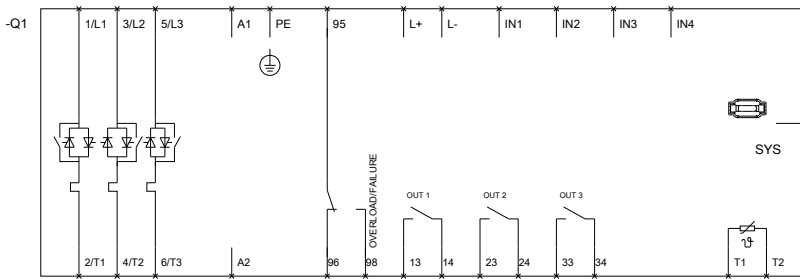
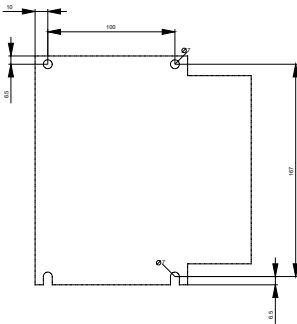
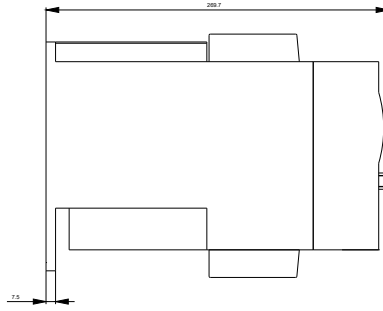
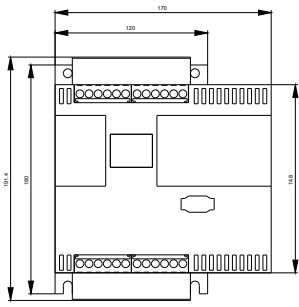
<http://www.siemens.com/industrymall>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW44231BC46>

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

<http://support.automation.siemens.com/WW/view/en/3RW44231BC46/all>



last modified:

15.01.2015