

SIRIUS SOFT STARTER, S6, 134 A, 90 KW/500 V, 40 DEG., 400-600 V AC, 230 V AC, SCREW TERMINALS



## General technical data

<b>product brandname</b>		SIRIUS
<ul style="list-style-type: none"> <li>• Product equipment Integrated bypass contact system</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• Product feature 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>		No
<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>		No
<b>Product component Motor brake output</b>		No
<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 starter
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<b>Operating current</b>		
• at 40 °C rated value	A	134
• at 50 °C rated value	A	117
• at 60 °C rated value	A	100
<b>Mechanical power output for three-phase motors</b>		
• at 400 V		
— at standard circuit at 40 °C rated value	W	75 000
• at 500 V		
— at standard circuit at 40 °C rated value	W	90 000
<b>Operating frequency rated value</b>	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 ... 600
<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>Minimum load [% of IM]</b>	%	20
<b>Adjustable motor current for motor overload protection minimum rated value</b>	A	59
<b>Continuous operating current [% of I<sub>e</sub>] at 40 °C</b>	%	115
<b>Power loss [W] at operating current at 40 °C during operation typical</b>	W	60

### 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 at AC</b>		
• at 50 Hz rated value	V	230
• at 60 Hz rated value	V	230
<b>Relative negative tolerance of the control supply voltage at AC at 60 Hz</b>	%	-15
<b>Relative positive tolerance of the control supply voltage at AC at 60 Hz</b>	%	10
<b>Display version for fault signal</b>		red

### Mechanical data

<b>Size of engine control device</b>		S6
<b>Width</b>	mm	120

<b>Height</b>	mm	198
<b>Depth</b>	mm	250
<b>Mounting type</b>		screw fixing
<b>Mounting position</b>		With additional fan: With vertical mounting surface +/- 90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/- 10° rotatable, with vertical mounting surface +/- 10° t
<b>Required spacing with side-by-side mounting</b>		
• upwards	mm	100
• at the side	mm	5
• downwards	mm	75
<b>Wire length maximum</b>	m	300
<b>Number of poles for main current circuit</b>		3

### Connections/Terminals

<b>Type of electrical connection</b>		
• for main current circuit		busbar connection
• for auxiliary and control current circuit		screw-type terminals
<b>Number of NC contacts for auxiliary contacts</b>		0
<b>Number of NO contacts for auxiliary contacts</b>		2
<b>Number of CO contacts for auxiliary contacts</b>		1
<b>Type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point</b>		
• finely stranded with core end processing		16 ... 70 mm <sup>2</sup>
• finely stranded without core end processing		16 ... 70 mm <sup>2</sup>
• stranded		16 ... 70 mm <sup>2</sup>
<b>Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point</b>		
• finely stranded with core end processing		16 ... 70 mm <sup>2</sup>
• finely stranded without core end processing		16 ... 70 mm <sup>2</sup>
• stranded		16 ... 70 mm <sup>2</sup>
<b>Type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</b>		
• finely stranded with core end processing		max. 1x 50 mm <sup>2</sup> , 1x 70 mm <sup>2</sup>
• finely stranded without core end processing		max. 1x 50 mm <sup>2</sup> , 1x 70 mm <sup>2</sup>
• stranded		max. 2x 70 mm <sup>2</sup>
<b>Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal</b>		
• using the back clamping point		6 ... 2/0
• using the front clamping point		6 ... 2/0
• using both clamping points		max. 2x 1/0

<b>Type of connectable conductor cross-sections for DIN cable lug for main contacts</b> <ul style="list-style-type: none"> <li>finely stranded</li> <li>stranded</li> </ul>		16 ... 95 mm <sup>2</sup> 25 ... 120 mm <sup>2</sup>
<b>Type of connectable conductor cross-sections for auxiliary contacts</b> <ul style="list-style-type: none"> <li>solid</li> <li>finely stranded with core end processing</li> </ul>		2x (0.5 ... 2.5 mm <sup>2</sup> ) 2x (0.5 ... 1.5 mm <sup>2</sup> )
<b>Type of connectable conductor cross-sections at AWG conductors</b> <ul style="list-style-type: none"> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		4 ... 250 kcmil 2x (20 ... 14) 2x (20 ... 16)

### Ambient conditions

<b>Installation altitude at height above sea level</b>	m	5 000
<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>	°C	-25 ... +60 -40 ... +80
<b>Derating temperature</b>	°C	40
<b>Protection class IP</b>		IP00

### Certificates/approvals

<b>General Product Approval</b>	<b>EMC</b>	<b>For use in hazardous locations</b>
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CCC



CSA



UL



C-Tick



ATEX

<b>Declaration of Conformity</b>	<b>Test Certificates</b>	<b>Shipping Approval</b>	<b>other</b>
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EG-Konf.

[Special Test Certificate](#)



GL



LRS

[Environmental Confirmations](#)

[Confirmation](#)

### UL/CSA ratings

<b>Yielded mechanical performance [hp] for three-phase AC motor</b> <ul style="list-style-type: none"> <li>at 460/480 V</li> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	75
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- at 575/600 V

— at standard circuit at 50 °C rated value

hp	100
Contact rating of auxiliary contacts according to UL	B300 / R300

#### Further information

**Simulation Tool for Soft Starters (STS)**

<https://support.industry.siemens.com/cs/ww/en/view/101494917>

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

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

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3RW4055-6BB45>

**Cax online generator**

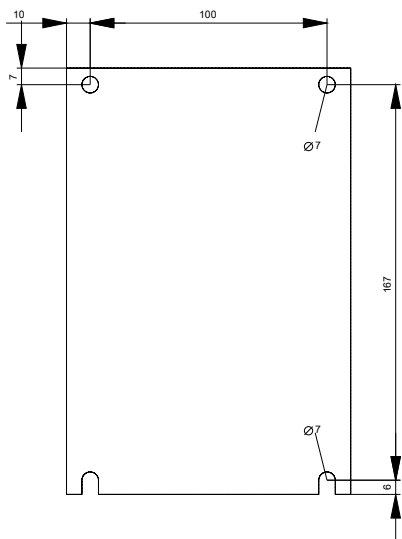
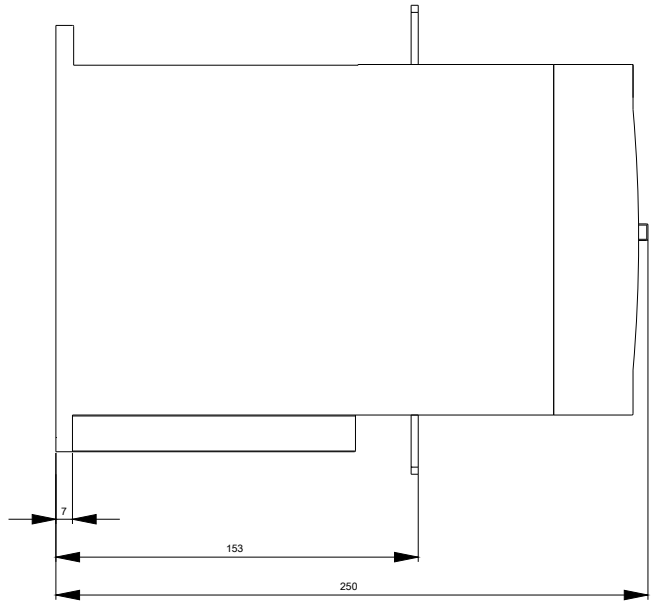
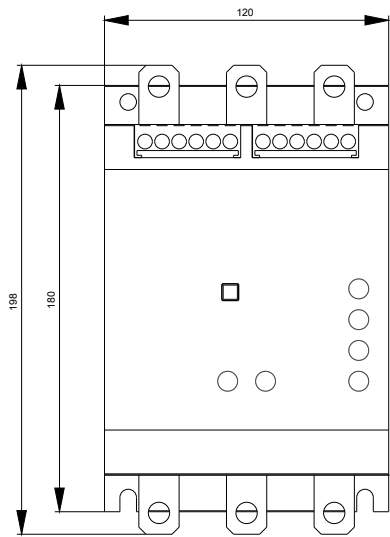
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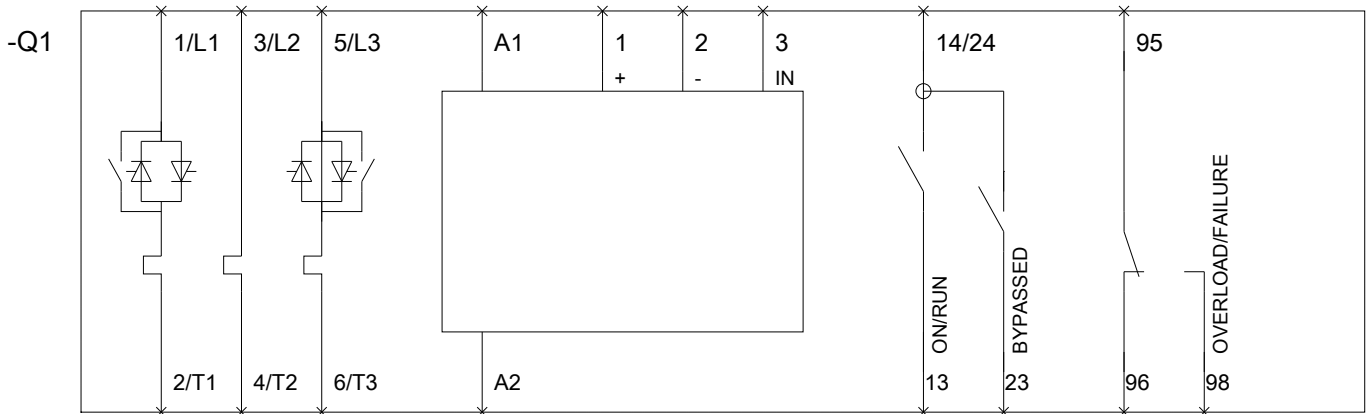
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4055-6BB45>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RW4055-6BB45&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RW4055-6BB45&lang=en)





last modified:

06/05/2017