



SIRIUS SOFT STARTER, VALUES WITH 575 V, 50 DEG., STANDARD: 26A, 20HP, INSIDE-DELTA CIRCUIT 3: 45A, 40HP, 400-690 V AC, 115 V AC, CAGE CLAMP 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	29
<ul style="list-style-type: none"> <li>at 50 °C Rated value</li> </ul>	A	26
<ul style="list-style-type: none"> <li>at 60 °C Rated value</li> </ul>	A	23
<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	50

• at 50 °C Rated value	A	45
• at 60 °C Rated value	A	40
<b>Mechanical power output for three-phase motors</b>		
• at 400 V		
— at standard circuit at 40 °C Rated value	W	15 000
— at 3-phase root switching at 40 °C Rated value	W	22 000
• at 500 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 690 V at standard circuit at 40 °C Rated value	W	30 000
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	5
<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	8

#### 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	115

• at 60 Hz Rated value	V	115
<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>		
• upwards	mm	100
• at the side	mm	5
• downwards	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>		
• for main current circuit		box terminals
• for auxiliary and control current circuit		spring-loaded 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		
• solid		2.5 ... 16 mm <sup>2</sup>
• finely stranded with core end processing		2.5 ... 35 mm <sup>2</sup>
• finely stranded without core end processing		4 ... 50 mm <sup>2</sup>
• stranded		4 ... 70 mm <sup>2</sup>
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
• solid		2,5 ... 16 mm <sup>2</sup>
• finely stranded with core end processing		2.5 ... 50 mm <sup>2</sup>
• finely stranded without core end processing		10 ... 50 mm <sup>2</sup>
• stranded		10 ... 70 mm <sup>2</sup>

Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		
<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>		2x (2.5 ... 16 mm <sup>2</sup> ) 2x (2.5 ... 35 mm <sup>2</sup> ) 2x (4 ... 35 mm <sup>2</sup> ) 2x (4 ... 50 mm <sup>2</sup> )
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal		
<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>		10 ... 2/0 10 ... 2/0 2x (10 ... 1/0)
<b>Type of connectable conductor cross-section for auxiliary contacts</b>		
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> </ul>		2x (0.25 ... 1.5 mm <sup>2</sup> ) 2x (0.25 ... 1.5 mm <sup>2</sup> )
<b>Type of connectable conductor cross-section for AWG conductors</b>		
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>		2x (24 ... 16)

#### Ambient conditions:

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

#### Certificates/ approvals:

General Product Approval	EMC	Declaration of Conformity
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Test Certificates	Shipping Approval
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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Shipping Approval	other
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[Environmental Confirmations](#)

**UL/CSA ratings:**

<p>yielded mechanical performance [hp] for three-phase AC motor</p> <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	15
	metric hp	30
	metric hp	20
	metric hp	40
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

**Further information**

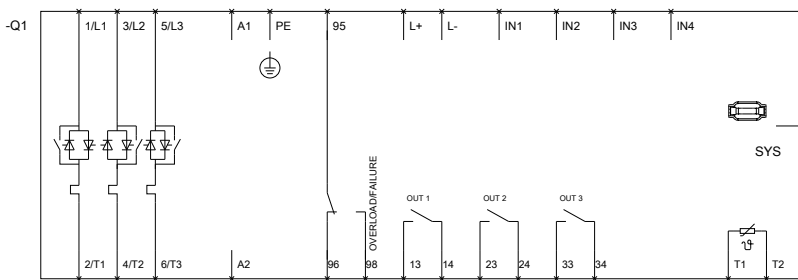
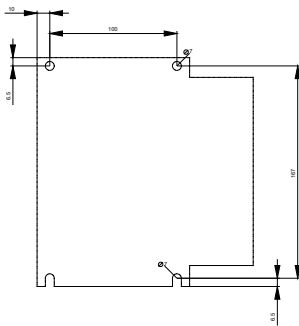
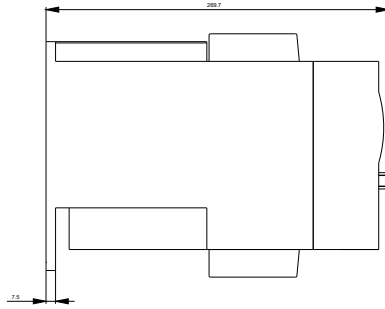
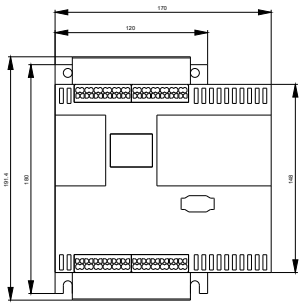
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