



SIRIUS SOFT STARTER, S0, 12.5A, 5.5KW/400V, 40 DEGR., AC 200-480V, AC/DC 24V, SCREW TERMINALS

### General technical data:

<b>product brand name</b>		SIRIUS
<b>Product feature</b>		
• integrated bypass contact system		Yes
• Thyristors		Yes
<b>Product function</b>		
• Intrinsic device protection		Yes
• motor overload protection		Yes
• Evaluation of thermistor motor protection		No
• External reset		Yes
• Adjustable current limitation		Yes
• inside-delta circuit		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 starters for standard applications
<b>Operating current</b>		
• at 40 °C Rated value	A	12.5
• at 50 °C Rated value	A	11
• at 60 °C Rated value	A	10
<b>Mechanical power output for three-phase motors</b>		
• at 230 V		

— at standard circuit at 40 °C Rated value	W	3 000
• at 400 V		
— at standard circuit at 40 °C Rated value	W	5 500
<b>yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value</b>	metric hp	3
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
Operating voltage at standard circuit Rated value	V	200 ... 480
<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
Minimum load in % of I <sub>M</sub>	%	20
Adjustable motor current for motor overload protection minimum rated value	A	5
Continuous operating current in % of I <sub>e</sub> at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	2

#### Control electronics:

Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1 Rated value	Hz	50
Control supply voltage frequency 2 Rated value	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
Control supply voltage 1 with AC		
• at 50 Hz Rated value	V	24
• at 60 Hz Rated value	V	24
<b>Relative negative tolerance of the control supply voltage with AC at 60 Hz</b>	%	-20
<b>Relative positive tolerance of the control supply voltage with AC at 60 Hz</b>	%	20
Control supply voltage 1 for DC Rated value	V	24
<b>Relative negative tolerance of the control supply voltage for DC</b>	%	-20
<b>Relative positive tolerance of the control supply voltage for DC</b>	%	20
Display version for fault signal		red

#### Mechanical data:

Size of engine control device		S0
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<b>Width</b>	mm	45
<b>Height</b>	mm	125
<b>Depth</b>	mm	155
<b>Mounting type</b>		screw and snap-on mounting
<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	60
• at the side	mm	15
• downwards	mm	40
<b>Installation altitude at height above sea level</b>	m	5 000
<b>Cable 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		screw-type terminals
• 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
Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point		
• solid		2x (1.5 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), max. 1x 10 mm <sup>2</sup>
• finely stranded with core end processing		2x (1.5 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal		
• using the front clamping point		1x 8, 2x (16 ... 10)
<b>Type of connectable conductor cross-section for auxiliary contacts</b>		
• solid		2x (0.5 ... 2.5 mm <sup>2</sup> )
• finely stranded with core end processing		2x (0.5 ... 1.5 mm <sup>2</sup> )
<b>Type of connectable conductor cross-section for AWG conductors</b>		
• for auxiliary contacts		2x (20 ... 14)
• for auxiliary contacts finely stranded with core end processing		2x (20 ... 16)

#### Ambient conditions:

<b>Ambient temperature</b>		
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• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +80
<b>Derating temperature</b>	°C	40
<b>Protection class IP</b>		IP20

**Certificates/ approvals:**

<b>General Product Approval</b>	<b>EMC</b>	<b>For use in hazardous locations</b>
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<b>Test Certificates</b>	<b>Shipping Approval</b>
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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



<b>other</b>
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[Environmental Confirmations](#)

[Declaration of Conformity](#)

**UL/CSA ratings:**

<b>yielded mechanical performance [hp] for three-phase AC motor</b>		
• at 220/230 V		
— at standard circuit at 50 °C Rated value	metric hp	3
• at 460/480 V		
— at standard circuit at 50 °C Rated value	metric hp	7.5
<b>Contact rating of the auxiliary contacts acc. to UL</b>		B300 / R300

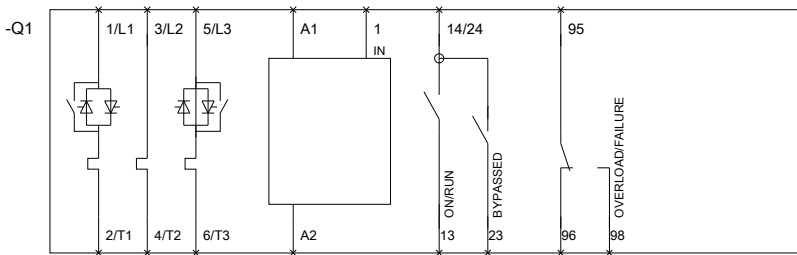
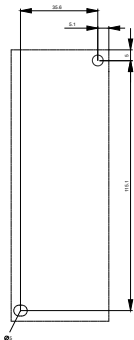
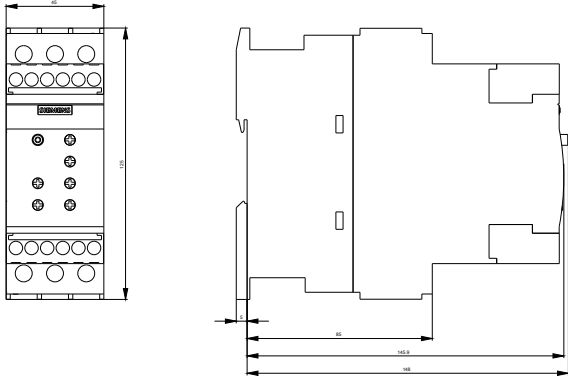
**Further information**

**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=3RW40241BB04>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<http://support.automation.siemens.com/WW/view/en/3RW40241BB04/all>



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