



SIRIUS SOFT STARTER, SIZE S00, 12.5A,  
5.5KW/400V, 40 DEGREES, 200-480V AC, 110-230V  
AC/DC, SPRING-LOADED 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		No
• motor overload protection		No
• Evaluation of thermistor motor protection		No
• External reset		No
• Adjustable current limitation		No
• 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	12
• at 60 °C Rated value	A	11
<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>	%	10
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	V	110 ... 230
Control supply voltage 1 with AC at 60 Hz	V	110 ... 230
<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	V	110 ... 230
<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		S00
Width	mm	45
Height	mm	120
Depth	mm	150

<b>Mounting type</b>		screw and snap-on mounting
<b>mounting position</b>		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
<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		spring-loaded 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>		1
<b>Number of CO contacts for auxiliary contacts</b>		0
Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point		
• solid		2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 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		2x (16 ... 10)
<b>Type of connectable conductor cross-section for main contacts</b>		
• solid		1 ... 4 mm <sup>2</sup>
• finely stranded with core end processing		1 ... 2.5 mm <sup>2</sup>
<b>Type of connectable conductor cross-section for auxiliary contacts</b>		
• solid		2x (0.25 ... 2.5 mm <sup>2</sup> )
• finely stranded with core end processing		2x (0.25 ... 1.5 mm <sup>2</sup> )
<b>Type of connectable conductor cross-section for AWG conductors</b>		
• for main contacts		16 ... 12
• for auxiliary contacts		2x (24 ... 14)

#### Ambient conditions:

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

Protection class IP

IP20

Certificates/ approvals:

General Product Approval

EMC

Test  
Certificates



CCC



CSA



UL



C-TICK

[Type Test  
Certificates/Test  
Report](#)

other

[other](#)

[Declaration of  
Conformity](#)

[Environmental  
Confirmations](#)

UL/CSA ratings:

yielded mechanical performance [hp] for three-phase  
AC motor

• 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

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**

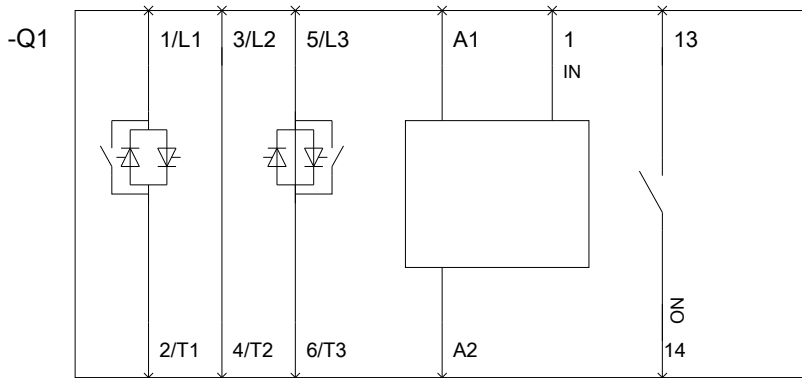
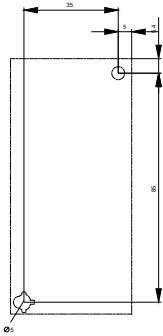
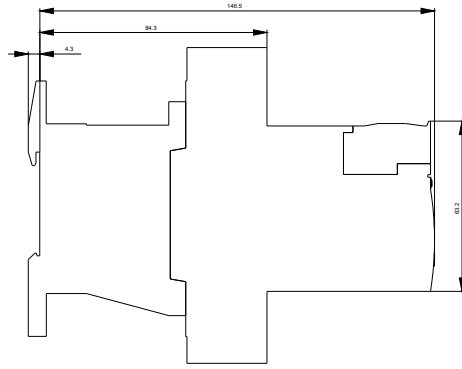
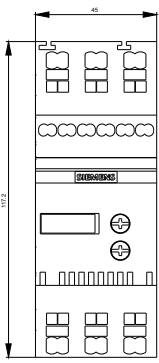
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW30172BB14>

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

<http://support.automation.siemens.com/WW/view/en/3RW30172BB14/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW30172BB14&lang=en>



last modified:

15.01.2015