



SIRIUS SOFT STARTER, SIZE S2, 72A, 37KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, 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		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	72
• at 50 °C Rated value	A	62
• at 60 °C Rated value	A	60
<b>Mechanical power output for three-phase motors</b>		
• at 230 V		

— at standard circuit at 40 °C Rated value	W	22 000
• at 400 V		
— at standard circuit at 40 °C Rated value	W	37 000
<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	20
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 [% of I <sub>e</sub> ] at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	15

#### 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>	%	-10
<b>Relative positive tolerance of the control supply voltage with AC at 60 Hz</b>	%	10
Control supply voltage 1 for DC Rated value	V	24
<b>Relative negative tolerance of the control supply voltage for DC</b>	%	-10
<b>Relative positive tolerance of the control supply voltage for DC</b>	%	10
Display version for fault signal		red

#### Mechanical data:

Size of engine control device		S2
Width	mm	55
Height	mm	160

<b>Depth</b>	mm	170
<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	30
• 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>		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 (1.5 ... 16 mm <sup>2</sup> )
• finely stranded with core end processing		0.75 ... 25 mm <sup>2</sup>
• stranded		0.75 ... 35 mm <sup>2</sup>
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 ... 16 mm <sup>2</sup> )
• finely stranded with core end processing		1.5 ... 25 mm <sup>2</sup>
• stranded		1.5 ... 35 mm <sup>2</sup>
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		
• solid		2x (1.5 ... 16 mm <sup>2</sup> )
• finely stranded with core end processing		2x (1.5 ... 16 mm <sup>2</sup> )
• stranded		2x (1.5 ... 25 mm <sup>2</sup> )
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal		
• using the back clamping point		16 ... 2
• using the front clamping point		18 ... 2
• using both clamping points		2x (16 ... 2)

<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 (0.5 ... 2.5 mm <sup>2</sup> ) 2x (0.5 ... 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> <li>• for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 ... 14) 2x (20 ... 16)

#### Ambient conditions:

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

#### Certificates/ approvals:

General Product Approval	EMC	Test Certificates
 CCC  CSA  UL	 EAC	 C-TICK <a href="#">Type Test Certificates/Test Report</a>

#### other

[Environmental Confirmations](#)     
 [other](#)     
 [Declaration of Conformity](#)

#### UL/CSA ratings:

<b>yielded mechanical performance [hp] for three-phase AC motor</b> <ul style="list-style-type: none"> <li>• at 220/230 V           <ul style="list-style-type: none"> <li>— at standard circuit at 50 °C Rated value</li> </ul> </li> <li>• at 460/480 V           <ul style="list-style-type: none"> <li>— at standard circuit at 50 °C Rated value</li> </ul> </li> </ul>	metric hp	20
	metric hp	40
<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**

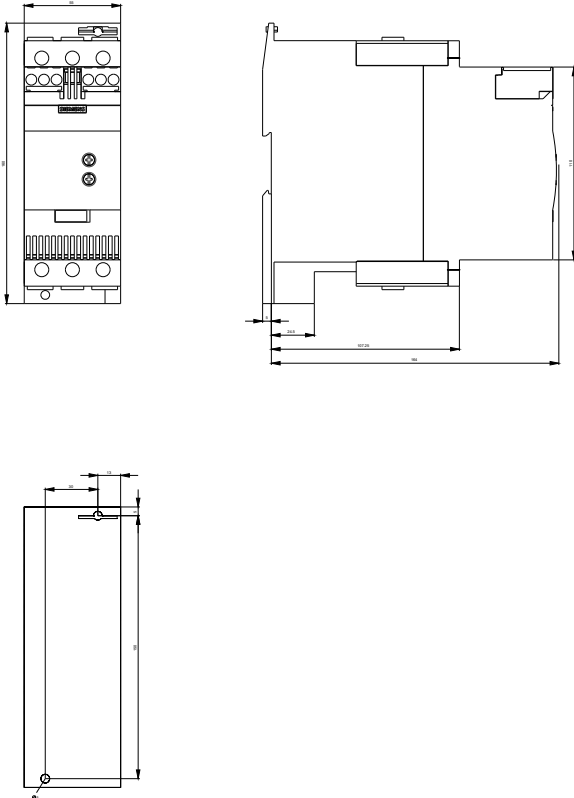
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RW30381BB04>

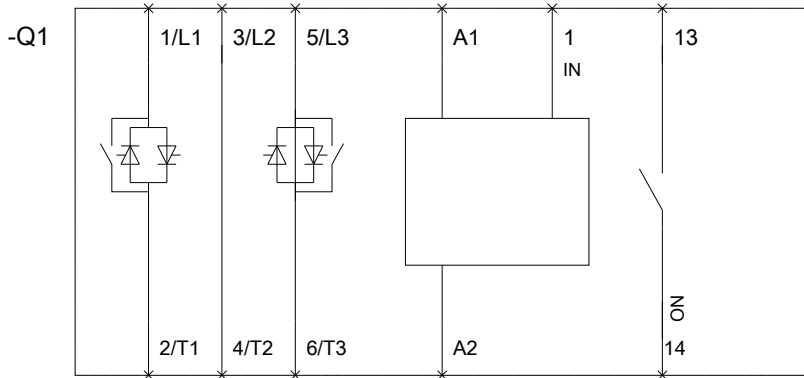
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RW30381BB04>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RW30381BB04&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RW30381BB04&lang=en)





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