

SIRIUS SOFT STARTER, VALUES AT 400V, 40DEG.,  
STANDARD: 615A, 355KW, INSIDE-DELTA CIRCUIT  
3: 1065A, 630KW, 200-460V AC, 230V AC, SCREW  
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	615
<ul style="list-style-type: none"> <li>• at 50 °C Rated value</li> </ul>	A	551
<ul style="list-style-type: none"> <li>• at 60 °C Rated value</li> </ul>	A	489
<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	1 065

• at 50 °C Rated value	A	954
• at 60 °C Rated value	A	847
<b>Mechanical power output for three-phase motors</b>		
• at 230 V		
— at standard circuit at 40 °C Rated value	W	200 000
— at 3-phase root switching at 40 °C Rated value	W	355 000
• at 400 V		
— at standard circuit at 40 °C Rated value	W	355 000
— at 3-phase root switching at 40 °C Rated value	W	630 000
<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	150
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	200 ... 460
<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	200 ... 460
<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	123
<b>Continuous operating current [% 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	186

#### 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	230

• at 60 Hz Rated value	V	230
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage with AC at 60 Hz	%	10
Display version for fault signal		Display

Mechanical data:		
Width	mm	510
Height	mm	640
Depth	mm	290
Mounting type		screw fixing
mounting position		bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar
Required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
• downwards	mm	75
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	500
Number of poles for main current circuit		3

Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		busbar connection
• for auxiliary and control current circuit		screw-type terminals
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		3
Number of CO contacts for auxiliary contacts		1
Type of connectable conductor cross-section for DIN cable lug for main contacts		
• finely stranded		50 ... 240 mm <sup>2</sup>
• stranded		70 ... 240 mm <sup>2</sup>
Type of connectable conductor cross-section for auxiliary contacts		
• 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> )
Type of connectable conductor cross-section for AWG conductors		
• for main contacts		2/0 ... 500 kcmil
• for auxiliary contacts		2x (20 ... 14)
• for auxiliary contacts finely stranded with core end processing		2x (20 ... 16)

Ambient conditions:

<b>Ambient temperature</b>		
• during operation	°C	60
• during storage	°C	-25 ... +80
<b>Derating temperature</b>	°C	40
<b>Protection class IP</b>		IP00

#### Certificates/ approvals:

<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>
---------------------------------	------------	----------------------------------



<b>Test Certificates</b>	<b>Shipping Approval</b>	<b>other</b>
--------------------------	--------------------------	--------------

[Special Test Certificate](#)



[Environmental Confirmations](#)

#### UL/CSA ratings:

<b>yielded mechanical performance [hp] for three-phase AC motor</b>		
• <b>at 200/208 V</b>		
— at 3-phase root switching at 50 °C Rated value	metric hp	350
• <b>at 220/230 V</b>		
— at standard circuit at 50 °C Rated value	metric hp	200
— at 3-phase root switching at 50 °C Rated value	metric hp	400
• <b>at 460/480 V</b>		
— at standard circuit at 50 °C Rated value	metric hp	450
— at 3-phase root switching at 50 °C Rated value	metric hp	850
<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**

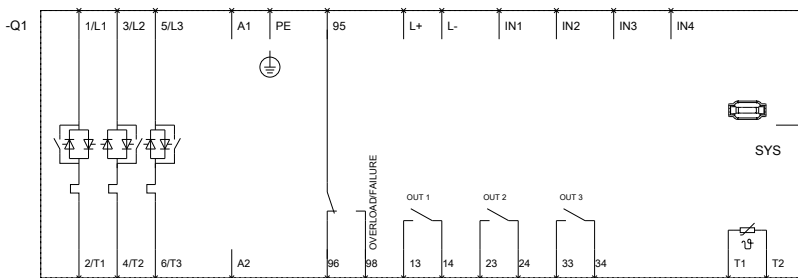
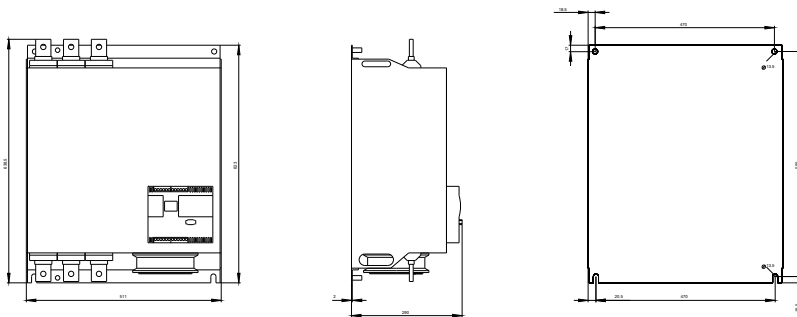
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW44546BC44>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW44546BC44>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW44546BC44&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW44546BC44&lang=en)



last modified:

01.04.2015