

SIRIUS SOFT STARTER, SIZE S3, 100 A, 70 KW / 500 V, AC 460...575 V, UC 24 V, SCREW CONNECTION



General technical data:		
product brand name		SIRIUS
Product feature		
• integrated bypass contact system		Yes
• Thyristors		Yes
Product function		
• 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
Product component Motor brake output		No
Equipment marking acc. to DIN EN 61346-2		Q
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics:		
Product designation		soft starters for standard applications

Operating current		
• at 40 °C Rated value	A	100
• at 50 °C Rated value	A	85
• at 60 °C Rated value	A	72
Mechanical power output for three-phase motors		
• at 500 V		
— at standard circuit at 40 °C Rated value	W	70 000
Operating frequency Rated value	Hz	50 ... 60
Relative negative tolerance of the operating frequency	%	-10
Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit Rated value	V	460 ... 575
Relative negative tolerance of the operating voltage at standard circuit	%	-10
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load [% of IM]	%	9
Continuous operating current [% of I _e] at 40 °C	%	100
Active power loss at operating current at 40 °C during operation typical	W	12

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
Relative negative tolerance of the control supply voltage frequency	%	-10
Relative positive tolerance of the control supply voltage frequency	%	10
Control supply voltage 1 at AC		
• at 50 Hz Rated value	V	24
• at 60 Hz Rated value	V	24
Relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
Control supply voltage 1 at DC Rated value	V	24
Relative negative tolerance of the control supply voltage at DC	%	-15
Relative positive tolerance of the control supply voltage at DC	%	10
Display version for fault signal		red

Mechanical data:

Size of engine control device		S3
Width	mm	70

Height	mm	170
Depth	mm	190
Mounting type		screw and snap-on mounting
mounting position		With vertical mounting surface +/- 10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
Required spacing with side-by-side mounting		
• upwards	mm	60
• at the side	mm	30
• downwards	mm	40
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	100
Number of poles for main current circuit		3

Connections/ Terminals:

Type of electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		2
Number of CO contacts for auxiliary contacts		0
Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point		
• solid		2x (2.5 ... 16 mm²)
• finely stranded with core end processing		2.5 ... 35 mm²
• stranded		4 ... 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
• solid		2x (2.5 ... 16 mm²)
• finely stranded with core end processing		2.5 ... 50 mm²
• stranded		10 ... 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		
• solid		2x (2.5 ... 16 mm²)
• finely stranded with core end processing		2x (2.5 ... 35 mm²)
• stranded		2x (10 ... 50 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal		
• using the back clamping point		10 ... 2/0
• using the front clamping point		10 ... 2/0
• using both clamping points		2x (10 ... 1/0)

Type of connectable conductor cross-section for DIN cable lug for main contacts - finely stranded - stranded		2 x (10 ... 50 mm ²) 2x (10 ... 70 mm ²)
Type of connectable conductor cross-section for auxiliary contacts - solid - finely stranded with core end processing		2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²)
Type of connectable conductor cross-section for AWG conductors - for main contacts - for auxiliary contacts		2x (7 ... 1/0) 2x (20 ... 14)

Ambient conditions:

Ambient temperature		
- during operation - during storage	°C	-25 ... +60
	°C	-40 ... +80
Derating temperature	°C	40
Protection class IP		IP20

Certificates/ approvals:

General Product Approval	EMC	Declaration of Conformity
 CCC	 EAC	 EG-Konf.
 CSA	 UL	 C-TICK

Test Certificates	other
spezielle Prüfbescheinigung n	sonstig Umweltbestätigung

UL/CSA ratings:

yielded mechanical performance [hp] for three-phase AC motor - at 460/480 V - at standard circuit at 50 °C Rated value - at 575/600 V - at standard circuit at 50 °C Rated value	hp hp	60 75
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Further information

Simulation Tool for Soft Starters (STS)

<https://support.industry.siemens.com/cs/ww/en/view/101494917>

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

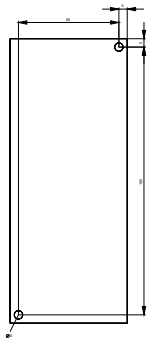
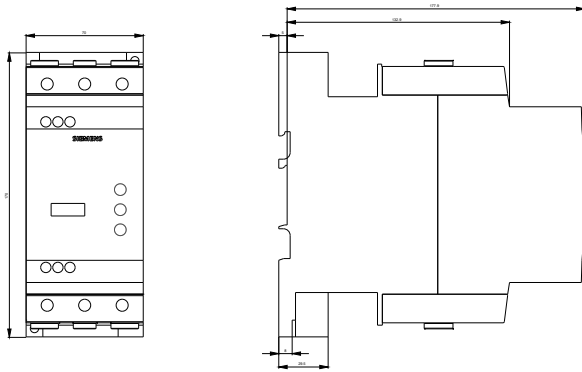
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW30461AB05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW30461AB05>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW30461AB05&lang=en



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17.07.2015