



SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 250A, 132KW, INSIDE-DELTA
CIRCUIT 3: 433A, 250KW, 200-460 V AC, 230 V AC,
CAGE CLAMP TERMINALS

General technical data:		
product brand name		SIRIUS
Product equipment Integrated bypass contact system		Yes
Product feature Thyristors		Yes
Product function		
Intrinsic device protection		Yes
motor overload protection		Yes
Evaluation of thermistor motor protection		Yes
External reset		Yes
Adjustable current limitation		Yes
Inside-delta circuit		Yes
Product component Motor brake output		Yes
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 high feature applications

Operating current		
• at 40 °C rated value	A	250
• at 50 °C rated value	A	215
• at 60 °C rated value	A	185
Operating current for three-phase motors at inside-delta circuit		
• at 40 °C rated value	A	433
• at 50 °C rated value	A	372
• at 60 °C rated value	A	320
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	75 000
— at inside-delta circuit at 40 °C rated value	W	132 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	132 000
— at inside-delta circuit at 40 °C rated value	W	250 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	60
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	200 ... 460
Relative negative tolerance of the operating voltage at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Operating voltage at inside-delta circuit rated value	V	200 ... 460
Relative negative tolerance of the operating voltage at inside-delta circuit	%	-15
Relative positive tolerance of the operating voltage at inside-delta circuit	%	10
Minimum load [% of IM]	%	8
Adjustable motor current for motor overload protection minimum rated value	A	50
Continuous operating current [% of I_e] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	110
Control electronics:		
Type of voltage of the control supply voltage		AC
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	230
• at 60 Hz rated value	V	230
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
Display version for fault signal		Display

Mechanical data:

Width	mm	210
Height	mm	230
Depth	mm	298
Mounting type		screw fixing
Mounting position		with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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
Wire 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		spring-loaded 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-sections for main contacts for box terminal using the front clamping point		
• finely stranded with core end processing		70 ... 240 mm ²
• finely stranded without core end processing		70 ... 240 mm ²
• stranded		95 ... 300 mm ²
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		

• finely stranded with core end processing • finely stranded without core end processing • stranded		120 ... 185 mm ² 120 ... 185 mm ² 120 ... 240 mm ²
Type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • finely stranded with core end processing • finely stranded without core end processing • stranded		min. 2x 50 mm ² , max. 2x 185 mm ² min. 2x 50 mm ² , max. 2x 185 mm ² max. 2x 70 mm ² , max. 2x 240 mm ²
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal • using the back clamping point • using the front clamping point • using both clamping points		250 ... 500 kcmil 3/0 ... 600 kcmil min. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded • stranded		50 ... 240 mm ² 70 ... 240 mm ²
Type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing		2x (0.25 ... 1.5 mm ²) 2x (0.25 ... 1.5 mm ²)
Type of connectable conductor cross-sections at AWG conductors • for main contacts • for auxiliary contacts		2/0 ... 500 kcmil 2x (24 ... 16)

Ambient conditions:

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

Certificates/ approvals:

General Product Approval	EMC	Declaration of Conformity
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Test Certificates	Shipping Approval
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[spezielle Prüfbescheinigungen](#)
[Typprüfbescheinigung/Werkszeugnis](#)



Shipping Approval	other
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[Umweltbestätigung](#) [Bestätigungen](#)

UL/CSA ratings:

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

• at 200/208 V		
— at inside-delta circuit at 50 °C rated value	hp	125
• at 220/230 V		
— at standard circuit at 50 °C rated value	hp	75
— at inside-delta circuit at 50 °C rated value	hp	150
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	150
— at inside-delta circuit at 50 °C rated value	hp	300

Contact rating of auxiliary contacts according to UL B300 / R300

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

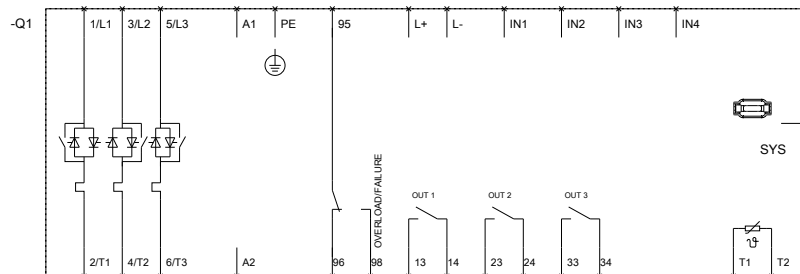
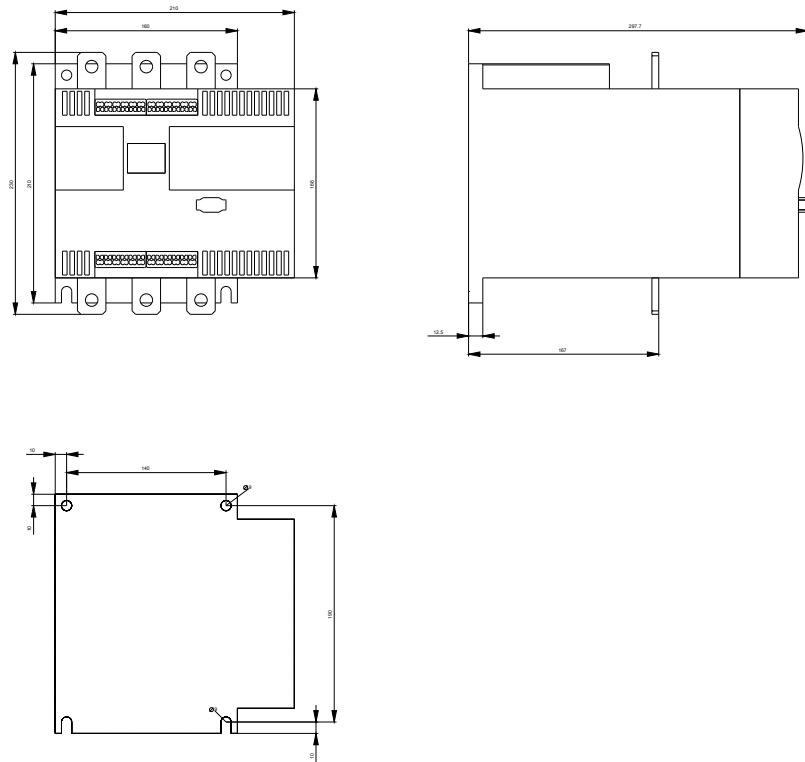
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4444-2BC44>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4444-2BC44>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4444-2BC44&lang=en



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