



SIRIUS SOFT STARTER, VALUES WITH 500 V, 40 DEG., STANDARD: 47A, 30KW, INSIDE-DELTA CIRCUIT 3: 81A, 45KW, 400-600 V AC, 230 V AC, SCREW TERMINALS

General technical data:

product brand name		SIRIUS
Product feature		
• integrated bypass contact system		Yes
• 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	47
• at 50 °C Rated value	A	42
• at 60 °C Rated value	A	37
Operating current for three-phase motors at 3-phase root switching		
• at 40 °C Rated value	A	81

• at 50 °C Rated value	A	73
• at 60 °C Rated value	A	64
Mechanical power output for three-phase motors		
• at 400 V		
— at standard circuit at 40 °C Rated value	W	22 000
— at 3-phase root switching at 40 °C Rated value	W	45 000
• at 500 V		
— at standard circuit at 40 °C Rated value	W	30 000
— at 3-phase root switching at 40 °C Rated value	W	45 000
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	400 ... 600
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 3-phase root switching Rated value	V	400 ... 600
Relative negative tolerance of the operating voltage at 3-phase root switching	%	-15
Relative positive tolerance of the operating voltage at 3-phase root switching	%	10
Minimum load in % of I_M	%	8
Adjustable motor current for motor overload protection minimum rated value	A	9
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	32

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 with AC		
• 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	170
Height	mm	192
Depth	mm	270
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		box 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		3
Number of CO contacts for auxiliary contacts		1
Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point		
• solid		2.5 ... 16 mm ²
• finely stranded with core end processing		2.5 ... 35 mm ²
• finely stranded without core end processing		4 ... 50 mm ²
• stranded		4 ... 70 mm ²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
• solid		2,5 ... 16 mm ²
• finely stranded with core end processing		2.5 ... 50 mm ²
• finely stranded without core end processing		10 ... 50 mm ²
• stranded		10 ... 70 mm ²

Type of connectable conductor cross-section for main contacts for box terminal using both clamping points <ul style="list-style-type: none"> • solid • finely stranded with core end processing • finely stranded without core end processing • stranded 		2x (2.5 ... 16 mm ²) 2x (2.5 ... 35 mm ²) 2x (4 ... 35 mm ²) 2x (4 ... 50 mm ²)
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal <ul style="list-style-type: none"> • using the back clamping point • using the front clamping point • using both clamping points 		10 ... 2/0 10 ... 2/0 2x (10 ... 1/0)
Type of connectable conductor cross-section for auxiliary contacts <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • for auxiliary contacts • for auxiliary contacts finely stranded with core end processing 		2x (20 ... 14) 2x (20 ... 16)

Ambient conditions:

Ambient temperature		
<ul style="list-style-type: none"> • 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	Test Certificates
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[Special Test Certificate](#)

Test Certificates	Shipping Approval
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[Type Test Certificates/Test Report](#)



ABS

BUREAU VERITAS

DNV

GL

LRS

Shipping Approval	other
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[Environmental Confirmations](#)

UL/CSA ratings:

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

• at 460/480 V

— at standard circuit at 50 °C Rated value

metric hp 25

— at 3-phase root switching at 50 °C Rated value

metric hp 50

• at 575/600 V

— at standard circuit at 50 °C Rated value

metric hp 30

— at 3-phase root switching at 50 °C Rated value

metric hp 60

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)

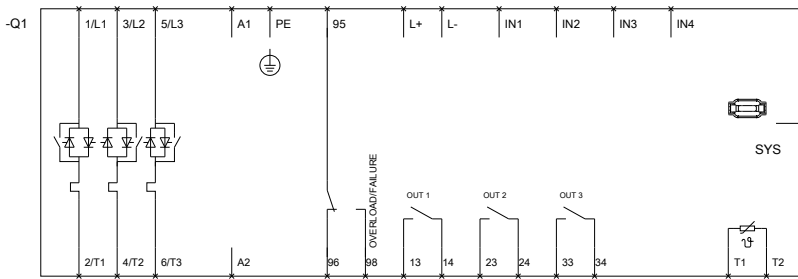
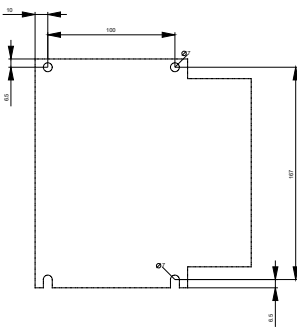
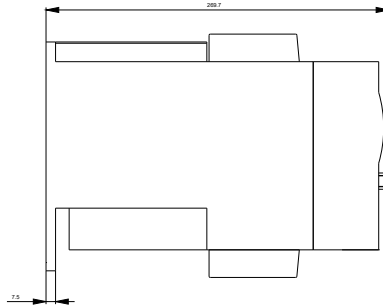
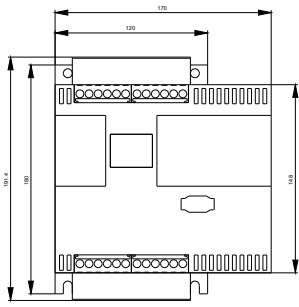
<http://www.siemens.com/industrymall>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW44241BC45>

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

<http://support.automation.siemens.com/WW/view/en/3RW44241BC45/all>



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