



SIRIUS SOFT STARTER, VALUES WITH 575 V, 50 DEG., STANDARD: 145A, 125HP, INSIDE-DELTA CIRCUIT 3: 251A, 250HP, 400-690 V AC, 115 V AC, SCREW TERMINALS

General technical data:

product brand name		SIRIUS
Product feature		
<ul style="list-style-type: none"> integrated bypass contact system 		Yes
<ul style="list-style-type: none"> Thyristors 		Yes
Product function		
<ul style="list-style-type: none"> Intrinsic device protection 		Yes
<ul style="list-style-type: none"> motor overload protection 		Yes
<ul style="list-style-type: none"> Evaluation of thermistor motor protection 		Yes
<ul style="list-style-type: none"> External reset 		Yes
<ul style="list-style-type: none"> Adjustable current limitation 		Yes
<ul style="list-style-type: none"> 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		
<ul style="list-style-type: none"> at 40 °C Rated value 	A	162
<ul style="list-style-type: none"> at 50 °C Rated value 	A	145
<ul style="list-style-type: none"> at 60 °C Rated value 	A	125
Operating current for three-phase motors at 3-phase root switching		
<ul style="list-style-type: none"> at 40 °C Rated value 	A	281

• at 50 °C Rated value	A	251
• at 60 °C Rated value	A	217
Mechanical power output for three-phase motors		
• at 400 V		
— at standard circuit at 40 °C Rated value	W	90 000
— at 3-phase root switching at 40 °C Rated value	W	160 000
• at 500 V		
— at standard circuit at 40 °C Rated value	W	110 000
— at 3-phase root switching at 40 °C Rated value	W	200 000
• at 690 V at standard circuit at 40 °C Rated value	W	160 000
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 ... 690
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	32
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	95
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	115

• at 60 Hz Rated value	V	115
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	200
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		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 main contacts for box terminal using the front clamping point		
• finely stranded with core end processing		16 ... 70 mm ²
• finely stranded without core end processing		16 ... 70 mm ²
• stranded		16 ... 70 mm ²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
• finely stranded with core end processing		16 ... 70 mm ²
• finely stranded without core end processing		16 ... 70 mm ²
• stranded		16 ... 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"> • finely stranded with core end processing • finely stranded without core end processing • stranded 		max. 1x 50 mm ² , 1x 70 mm ² max. 1x 50 mm ² , 1x 70 mm ² max. 2x 70 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 		6 ... 2/0 6 ... 2/0 max. 2x 1/0
Type of connectable conductor cross-section for DIN cable lug for main contacts <ul style="list-style-type: none"> • finely stranded • stranded 		16 ... 95 mm ² 25 ... 120 mm ²
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 main contacts • for auxiliary contacts • for auxiliary contacts finely stranded with core end processing 		4 ... 250 kcmil 2x (20 ... 14) 2x (20 ... 16)

Ambient conditions:

Ambient temperature <ul style="list-style-type: none"> • during operation • during storage 	°C °C	60 -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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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Shipping Approval	other
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[Environmental Confirmations](#)

UL/CSA ratings:

<p>yielded mechanical performance [hp] for three-phase AC motor</p> <ul style="list-style-type: none"> at 460/480 V <ul style="list-style-type: none"> at standard circuit at 50 °C Rated value at 3-phase root switching at 50 °C Rated value at 575/600 V <ul style="list-style-type: none"> at standard circuit at 50 °C Rated value at 3-phase root switching at 50 °C Rated value 	metric hp	100
	metric hp	200
	metric hp	125
	metric hp	250
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

Further information

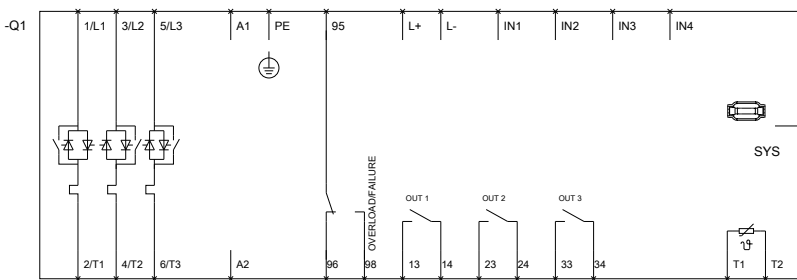
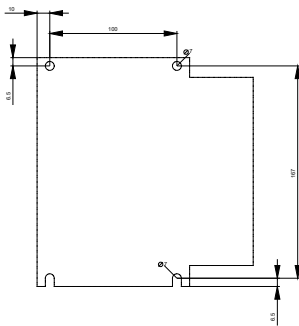
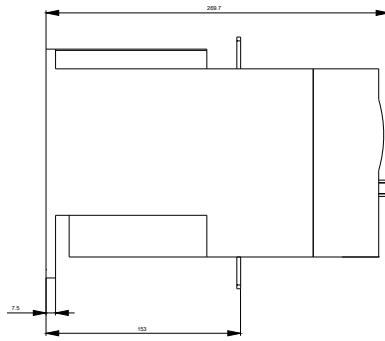
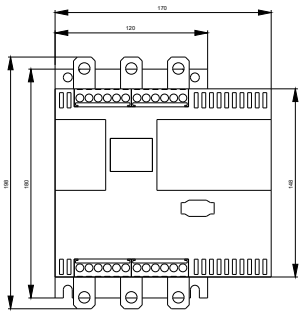
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