

SIRIUS SOFT STARTER, VALUES AT 400V, 40DEG., STANDARD: 780A, 450KW, INSIDE-DELTA CIRCUIT 3: 1351A, 800KW, 200-460V AC, 230V AC, SCREW TERMINALS

General details:

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
Reference code		
<ul style="list-style-type: none"> acc. to DIN EN 61346-2 		Q
<ul style="list-style-type: none"> 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	780
• at 50 °C / Rated value	A	693
• at 60 °C / Rated value	A	615
• for three-phase motors / at 3-phase root switching		
• at 40 °C / Rated value	A	1,351
• at 50 °C / Rated value	A	1,200
• at 60 °C / Rated value	A	1,065
Mechanical power output / for three-phase motors		
• at 230 V / at standard circuit / at 40 °C		
• Rated value	W	250,000
• at 400 V / at standard circuit / at 40 °C		
• Rated value	W	450,000
• at 230 V / at 3-phase root switching / at 40 °C		
• Rated value	W	450,000
• at 400 V / at 3-phase root switching / at 40 °C		
• Rated value	W	800,000
yielded mechanical performance [hp] / for three-phase AC motor / at 200/208 V / at standard circuit / at 50 °C / Rated value	hp	200
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 3-phase root switching / Rated value	V	200 ... 460
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	156
Continuous operating current in % of I_e / at 40 °C	%	115
Active power loss / at operating current / at 40 °C / during operation / typical	W	214
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	V	230
• with AC / at 60 Hz	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 design:

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
Spacing required 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

Electrical connections:

Design of the 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 ²
• stranded		70 ... 240 mm ²
Type of connectable conductor cross-section		
• for AWG conductors / for main contacts		2/0 ... 500 kcmil

Type of connectable conductor cross-section		
<ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> solid finely stranded / with core end processing for AWG conductors / for auxiliary contacts <ul style="list-style-type: none"> finely stranded / with core end processing 		2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²) 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
 CCC	 UL	 EG-Konf.
 CSA	 EAC	 C-TICK
Test Certificates	Shipping Approval	other
Special Test Certificate	 ABS	Environmental Confirmations
	 DNV	
	 LRS	

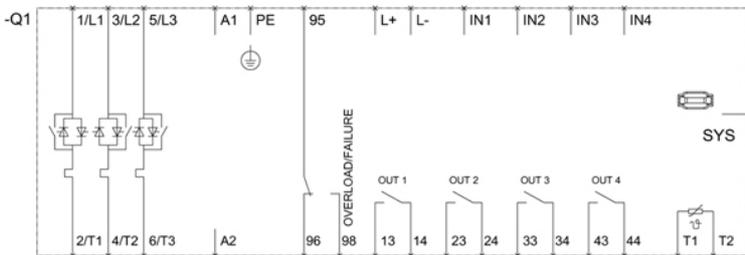
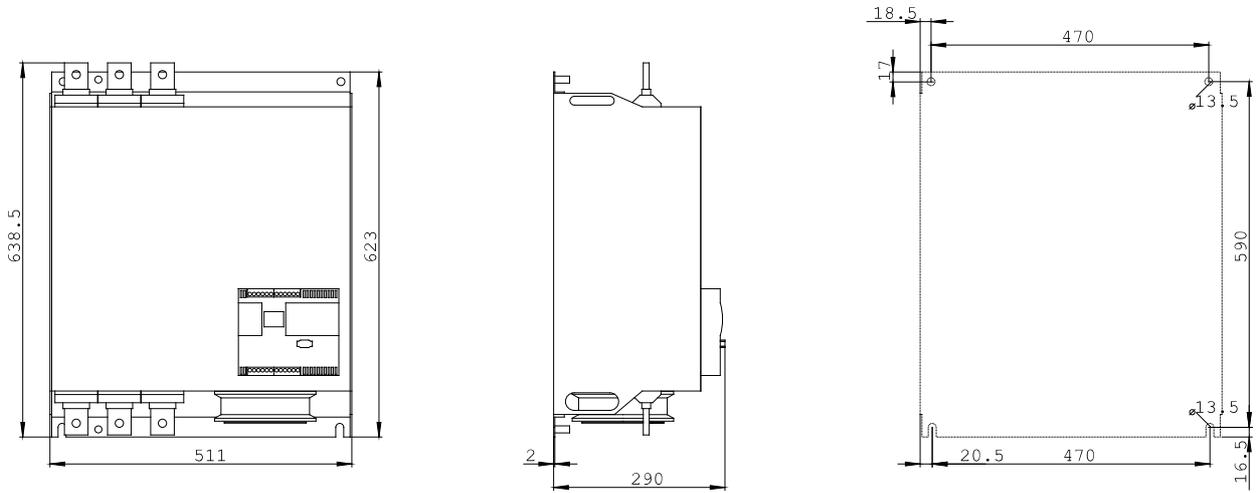
UL/CSA ratings

yielded mechanical performance [hp] / for three-phase AC motor		
<ul style="list-style-type: none"> at 220/230 V / at standard circuit <ul style="list-style-type: none"> at 50 °C / Rated value at 460/480 V / at standard circuit <ul style="list-style-type: none"> at 50 °C / Rated value at 200/208 V / at 3-phase root switching / at 50 °C / Rated value at 220/230 V / at 3-phase root switching / at 50 °C / Rated value at 460/480 V / at 3-phase root switching / at 50 °C / Rated value 	hp hp hp hp hp	250 600 450 500 1,050
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/industrial-controls/mall>



last change:

Sep 29, 2014