



SIRIUS SOFT STARTER, VALUES AT 575V,
50DEG., STANDARD: 494A, 500HP,
INSIDE-DELTA CIRCUIT 3: 856A, 950HP,
400-690V AC, 115V AC, SCREW TERMINALS

General details:

product brand name		SIRIUS
Product equipment		
• integrated bridging contact system		Yes
• thyristors		Yes
Product function		
• intrinsic device protection		Yes
• motor overload protection		Yes
• evaluation of thermal resistor motor protection		Yes
• reset external		Yes
• adjustable current limitation		Yes
• inside-delta circuit		Yes
Product component / outlet for enine brake		Yes
Item designation		
• according to DIN EN 61346-2		Q
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		G

Power Electronics:

product designation		soft starters for high feature applications
Operating current		

• at 40 °C / rated value	A	551
• at 50 °C / rated value	A	494
• at 60 °C / rated value	A	438
• for three-phase servomotors / at 3-phase root switching		
• at 40 °C / rated value	A	954
• at 50 °C / rated value	A	856
• at 60 °C / rated value	A	759
Emitted mechanical power / for three-phase servomotors		
• at 400 V / at standard switching / at 40 °C		
• rated value	W	315,000
• at 500 V / at standard switching / at 40 °C		
• rated value	W	355,000
• at 690 V / at standard switching / at 40 °C		
• rated value	W	560,000
• at 400 V / at 3-phase root switching / at 40 °C		
• rated value	W	560,000
• at 500 V / at 3-phase root switching / at 40 °C		
• rated value	W	630,000
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 / with standard circuit / rated value	V	400 ... 690
Relative negative tolerance / of the operating voltage / with standard circuit	%	-15
Relative positive tolerance / of the operating voltage / with standard circuit	%	10
Operating voltage / at 3-phase root switching / rated value	V	400 ... 600
Relative negative tolerance / of the operating voltage / with inside-delta circuit	%	-15
Relative positive tolerance / of the operating voltage / with inside-delta circuit	%	10
Minimum load in % of I_M	%	8
Adjustable rated current / of the motor / for motor overload protection / minimum	A	110
Continuous operating current in % of I_e / at 40°C	%	115
Active power loss / at operating current / at 40°C / during operating phase / typical	W	159
Control electronics:		
Type of voltage / of the controlled 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 50 Hz / for AC • at 60 Hz / for AC	V V	115 115
Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC	%	-15
Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC	%	10
Type of display / for fault signal		Display

Mechanical design:		
Width	mm	510
Height	mm	640
Depth	mm	290
Type of mounting		screw fixing
mounting position		bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar
Distance, to be maintained, to the ranks assembly • upwards • sideways • downwards	mm mm mm	100 5 75
Installation altitude / at a height over 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 • for auxiliary and control current circuit		busbar connection screw-type terminals
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		3
Number of change-over switches / for auxiliary contacts		1
Type of the connectable conductor cross-section / for DIN cable lug / for main contacts • finely stranded • stranded		50 ... 240 mm ² 70 ... 240 mm ²
Type of the connectable conductor cross-section • for AWG conductors / for main contacts		2/0 ... 500 kcmil

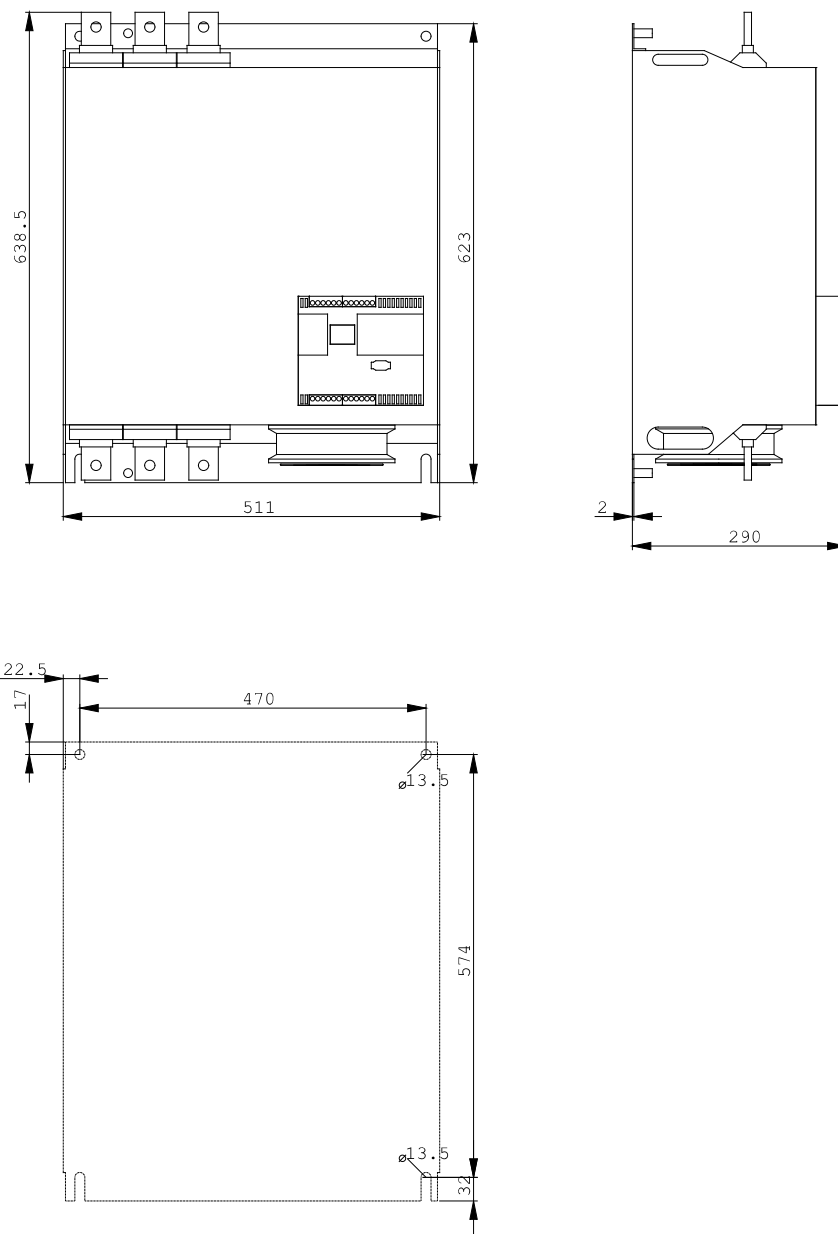
Type of the connectable conductor cross-section		
• for auxiliary contacts • solid • finely stranded / with conductor end processing • for AWG conductors / for auxiliary contacts • finely stranded / with wire end proc		
		2x (0.5 ... 2.5 mm ²)
		2x (0.5 ... 1.5 mm ²)
		2x (20 ... 14)
		2x (20 ... 16)

Ambient conditions:		
Ambient temperature		
• during operating	/ °C	60
• during storage	°C	-25 ... +80
Derating temperature		
	°C	40
Protection class IP		
		IP00

Certificates/approvals:					
General Product Approval			EMC	Shipping Approval	
					
CCC	CSA	GOST	UL	C-TICK	LRS
other					
Declaration of Conformity		Environmental Confirmations			

UL/CSA ratings		
yielded mechanical performance (hp) / for three-phase squirrel cage motors		
• at 460/480 V / at standard circuit	hp	400
• at 50 °C / rated value		
• at 575/600 V / at standard circuit	hp	500
• at 50 °C / rated value		
• at 460/480 V / at inside-delta circuit / at 50 °C / rated value	hp	750
• at 575/600 V / at inside-delta circuit / at 50 °C / rated value	hp	950
Contact rating designation / for auxiliary contacts / according 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:

Feb 7, 2013