



SIRIUS SOFT STARTER, VALUES AT 690V,
40DEGREES, STANDARD: 970A, 1000KW,
INSIDE-DELTA CIRCUIT 3: ONLY UP TO 600V,
AC 400-690V, AC 230V, 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	970
• at 50 °C / rated value	A	850
• at 60 °C / rated value	A	760
• for three-phase servomotors / at 3-phase root switching		
• at 40 °C / rated value	A	1,680
• at 50 °C / rated value	A	1,472
• at 60 °C / rated value	A	1,316
Emitted mechanical power / for three-phase servomotors		
• at 400 V / at standard switching / at 40 °C		
• rated value	W	560,000
• at 500 V / at standard switching / at 40 °C		
• rated value	W	710,000
• at 690 V / at standard switching / at 40 °C		
• rated value	W	1,000,000
• at 400 V / at 3-phase root switching / at 40 °C		
• rated value	W	1,000,000
• at 500 V / at 3-phase root switching / at 40 °C		
• rated value	W	1,200,000
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	194
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	270
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	230 230
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 - during storage	/ °C °C	60 -25 ... +80
Derating temperature	°C	40
Protection class IP		IP00

Certificates/approvals:					
General Product Approval				EMC	Test Certificates
					Special Test Certificate
CCC	CSA	GOST	UL	C-TICK	
Shipping Approval					
					
BUREAU VERITAS	DNV	GL	LRS	PRS	
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 - at 50 °C / rated value - at 575/600 V / at standard circuit - at 50 °C / rated value - at 460/480 V / at inside-delta circuit / at 50 °C / rated value - at 575/600 V / at inside-delta circuit / at 50 °C / rated value	hp hp hp hp	750 950 1,300 1,650
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>

CAX-Online-Generator

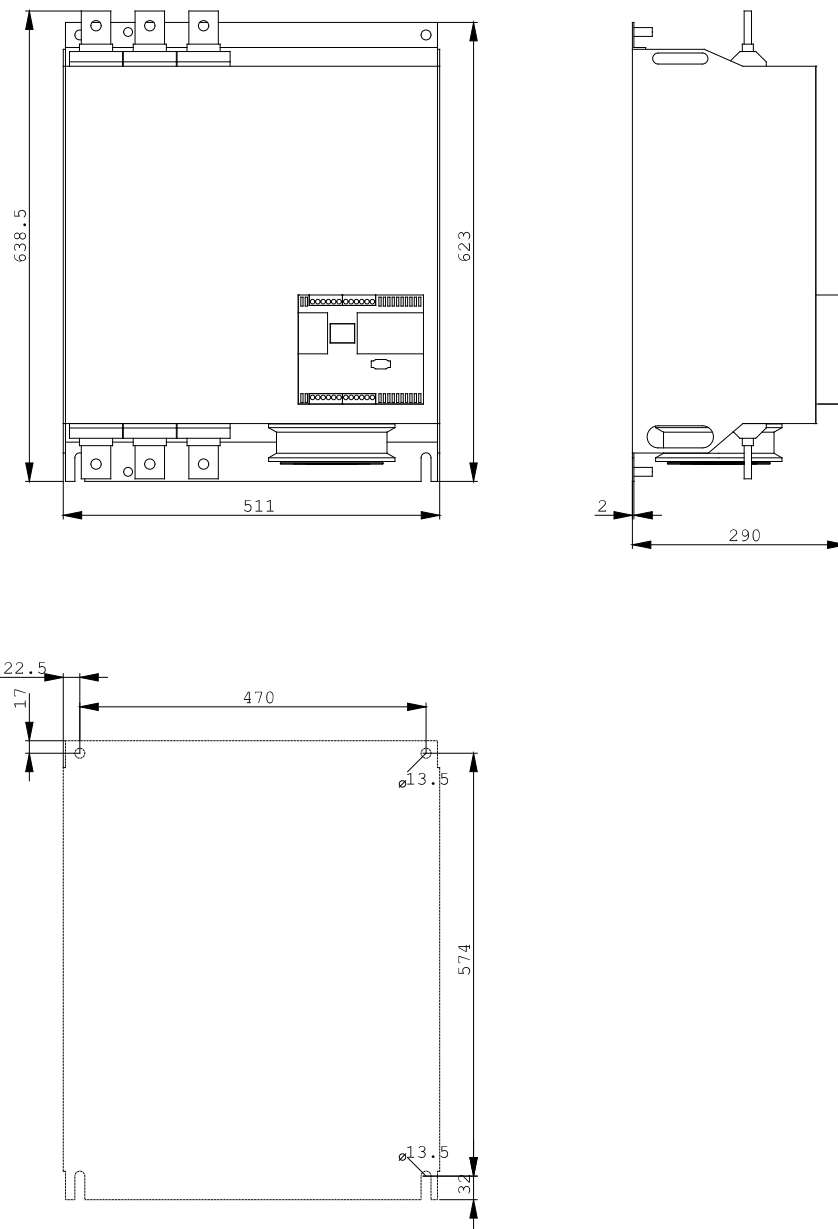
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RW4458-6BC46/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4458-6BC46



last change:

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