

SAFTRONICS SH6 HEATER CONTROLLER

PHASE ANGLE THYRISTOR CONTROL UNIT

Manufactured by Saftronics.

FEATURES

- 6 Thyristor Control
- O/L Protection
- Current limit
- Current feedback
- Current Overload: 150% of nominal for 30 sec every 10 min.
- Altitude: 1500m above sea level
- Ambient Temperature: 40 degrees C max

Options

- IP44 enclosure
- IP 54 enclosure
- System design
- Remote Start

Range

- 380Vac 70kW-700kW
- 525Vac 90kW-900kW



Model Sizes

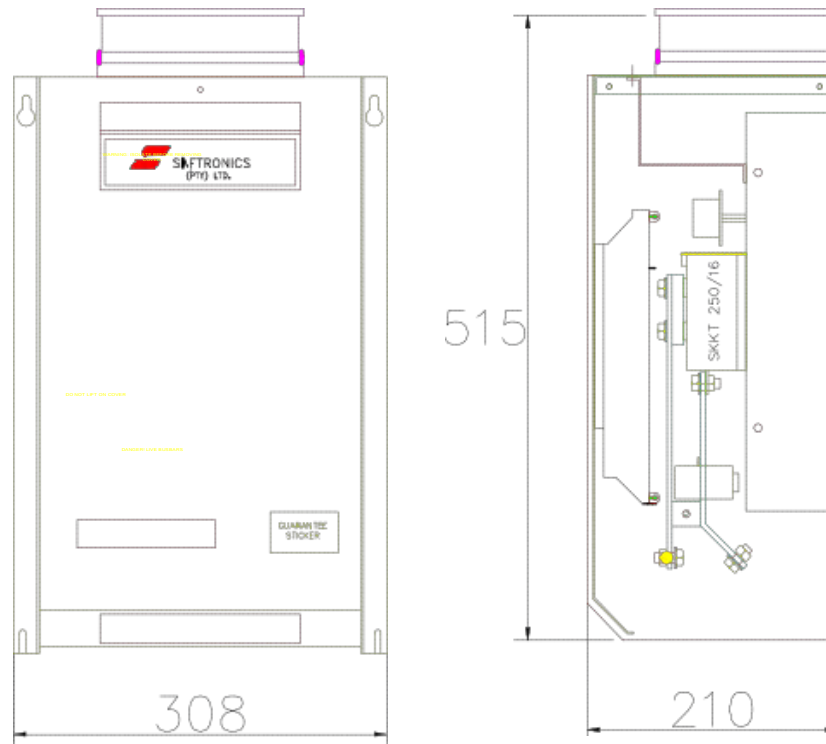
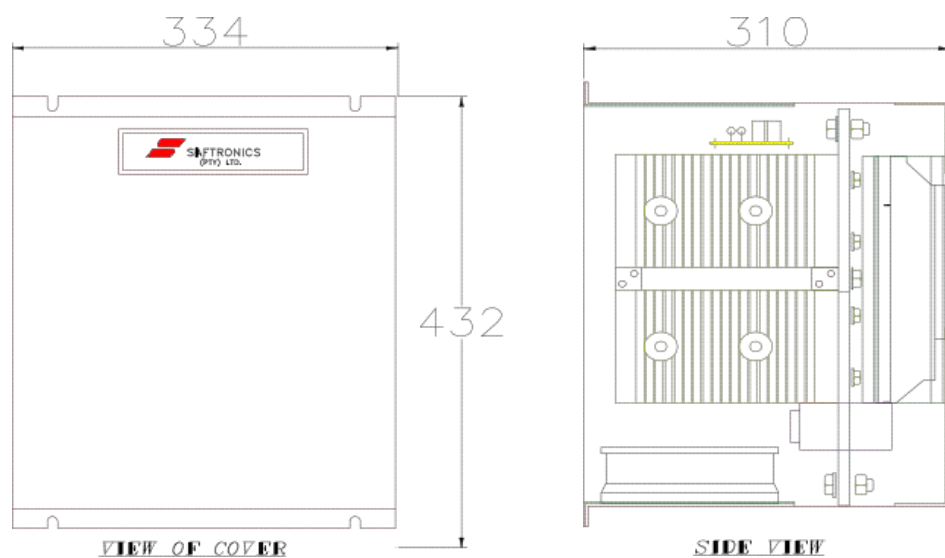
TYPE	LOAD POWER (380 V)	LOAD POWER (525 V)	(NOMINAL) LINE VOLTAGE	LOAD CURRENT	SIZE
SH6 – 100	69 kW	90 kW	380V / 525V	100 Amps	B
SH6 – 150	100 kW	135 kW	380V / 525V	150 Amps	B
SH6 – 200	130 kW	180 kW	380V / 525V	200 Amps	B
SH6 – 300	200 kW	275 kW	380V / 525V	300 Amps	C
SH6 – 400	260 kW	360 kW	380V / 525V	400 Amps	D
SH6 – 600	400 kW	550 kW	380V / 525V	600 Amps	E
SH6 - 800	525 kW	730 kW	380V / 525V	800 Amps	E

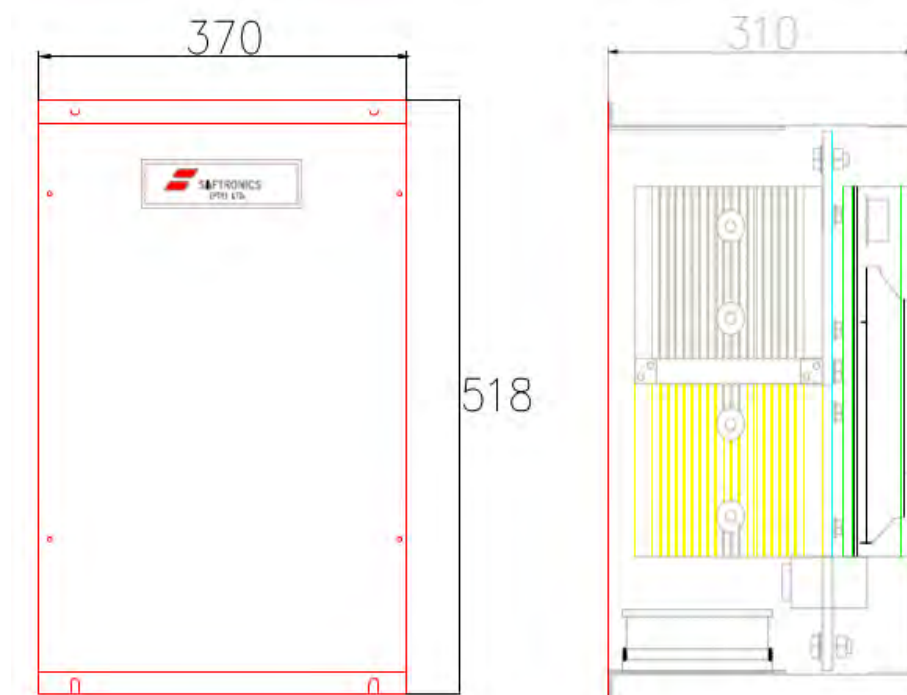
Technical Features

Description		Control
SH6 INPUT DATA		
<u>NOTE:</u> The stack input voltage and the control circuit supply must be synchronised i.e. R to R, S to S, T to T!!		
Voltage type	3 Phase Input	
SCR Voltage	2.5 x line-line AC Voltage (min)	
Type SH6-XX-3	420Max continuous RMS Voltage	
Type SH6-XX-5	580V continuous RMS Voltage	
Line Frequency	50Hz $\pm$ 2Hz	
PC 550 CONTROL SUPPLY		
Voltage Type	3 Phase Input Selectable 380/525V	
Link at 380V Position	340V – 420V	
Link at 525V Position	470V – 580V	
Line Current	Less than 25mA	
Line Frequency	50Hz $\pm$ 2Hz	
FAN SUPPLY		
SH6-100-800	AC220V, 50Hz, 0,5A	
SH6 OUPUT DATA		
Unless otherwise specified, the currents listed below are maximum at a maximum ambient temp of 40 Deg°C and at an altitude of 1500m max		
SH6 100	100 A Max. Cont. Current	
Type SH6 - 150	150A Max. Cont. Current	
Type SH6 - 200	200A Max. Cont. Current	
Type SH6 - 300	300A Max. Cont. Current	
Type SH6 - 400	400A Max. Cont. Current	
Type SH6 - 600	600A Max. Cont. Current	
Type SH6 - 800	800A Max. Cont. Current	
OVER CURRENT		
Amount	110% (Max Continuous Current) Max*Different rating available on request	
DERATING		
At higher temperature than 40 °C	1.5% per 1 Deg.C	
At higher altitude than 1500m	1% per 100m	

SH6 Heater Controller
UNIT DIMENSIONS

The complete range of SH6 soft starters are divided into 4 physical sizes. Namely Size B, C, D and E.

Size B

Size C


SH6 Heater Controller**SIZE D****SIZE E**