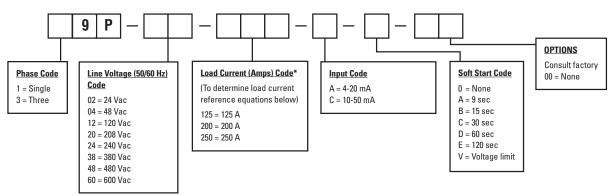
Power Controllers Series 19P and 39P



The Athena 19P (single phase) and 39P (three phase) are phase-angle fired power controllers that can be used for control of resistive heater loads. The high amperage series provides capacity from 125 amps up to 250 amps and the controllers are designed to extend heater life while eliminating thermal shock.

- Optically Isolated
- Diagnostic Indicators
- ▲ Self-Synchronizing to Line Frequency
- Isolated Heat Sinks
- Compact Design
- A Protection Against Line Voltage Spikes
- Fan Cooled

Ordering Information



To Order: Determine proper line voltage, load current, and options required, if any.

*Single Phase Load Current (Amps) Equation

Total Amps

Total Amps

<u>Total Watts (Load)</u> Volts (Line Voltage)

*Three Phase Load Current (Amps) Equation

= <u>Total Watts (Load)</u> 1.73 x Volts (Line Voltage)

WARNING

Branch circuit overcurrent protection is to be provided in accordance with national and local codes.

Technical Specifications

Supply Voltage Frequency Current Rating Input Control Signal Isolation Transient Voltage Protection Ambient Temperature Load

Diagnostic Indicators

Cooling Specification

24 to 600 Vac 50-60 Hz 125 - 250 A

2500 Vac

Inherent built in immunity 32°F to 122°F (0°C to 50°C) Resistive. 39P Three Phase, 3 Leg Half Control for 3 Wire Delta or 3 Phase Ungrounded Wye 19P Single Phase, 1 Leg Control Shorted or open SCR, open or reverse input Fan cooled, requires 120 Vac supply voltage

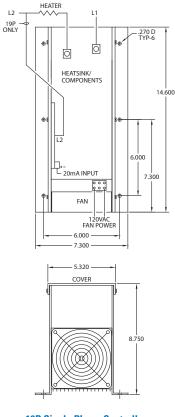


Thermal Devices, Inc. Mount Airy, Maryland USA www.thermaldevices.com

Power Controllers Series 19P and 39P

Phase Angle Fired Controllers

The 19P and 39P SCR Phase-Angle Fired Power Controllers turn on each SCR for a controlled portion of a half-cycle of the line voltage. The effective line voltage is determined by the portion of the line voltage delivered, which is proportional to the input control signal. Additionally, the voltage is regulated as the line voltage changes.



19P Single Phase Controller

Amperage Size 125 Amps Amperage Size 200 and 250 Amps

Accessories:

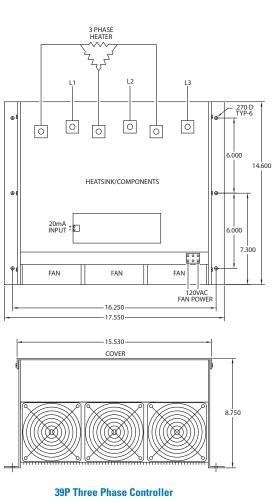
If a different input code is required other than listed, reference the Athena 90M manual station data sheet or consult Athena for your requirements.

Weight 13.5 lbs.

Weight 14.0 lbs.

	ena line Velterre Br	ange from 24 thru	100 Vooi		
Spare ruses in	Part Number	Single Phase	Three Phase	Trigger Boards:	
125 Amps	210A044U01	1 Required	3 Required	Single Phase Units	Part Number
200 Amps	210A046U01	1 Required	3 Required	125, 200, 250 Amps	785A432U01 - (Specify Exact Line Voltage, Single or Three Phase)
250 Amps	210A045U01	1 Required	3 Required	Example: 785A432U01, 240 Vac	
pare Fuses for Line Voltage Range from 575 thru 600 Vac:			600 Vac:	Trigger Boards:	
-	Part Number	Single Phase	Three Phase	Three Phase Units	Part Number
125 Amps	210A047U01	1 Required	3 Required	125, 200, 250 Amps	785A095Uxx - (Specify Exact Line Voltage, Single or Three Phase)
200 Amps	210A006U01	1 Required	3 Required	Example: 785A095U01, 240 Vac	
250 Amps	210A048U01	1 Required	3 Required		





Amperage Size 125 Amps Amperage Size 200 and 250 Amps Weight 35.5 lbs. Weight 37.5 lbs.