

3869

Three Phase, 6 SCR DC Power Controller

DESCRIPTION

The Model 3869 is a DC power controller that linearly controls (with respect to a command signal), either the voltage or current applied to a load, by phase-angle operation of 6 SCR's in a 3 phase rectifier bridge.

APPLICATIONS

- Battery Charging
- Plating and Anodizing
- Motor-Generator Field Excitation



FEATURES

Run or idle input selection.

This feature provides a convenient means by which the DC output can be controlled by either of two command signals for Run/Idle control or Auto/Manual control.

Start-stop operation.

A "RUN" input on the command connector is provided for Start-Stop operation. A contact closure is required to enable the gate drives to the SCR's.

Selectable slew rate.

Slew rate is the speed at which the output changes, given a step change of the command signal.

Slew rate = the time required for 62% of the change to occur. A switch is provided on the circuit board which will allow the user to select fast or ramp start-up.

The fast feature is useful if the controller is used in an application where short bursts of power are required.

The ramp feature is useful to obtain stability when current is controlled and the load has a high inductive characteristic.

Voltage metering output.

A DC output signal is proportional to the average DC load voltage. 1 volt equals 100 volts to the load.

Phase rotation sensing.

The controller is not phase rotation sensitive.

User selectable input ranges.

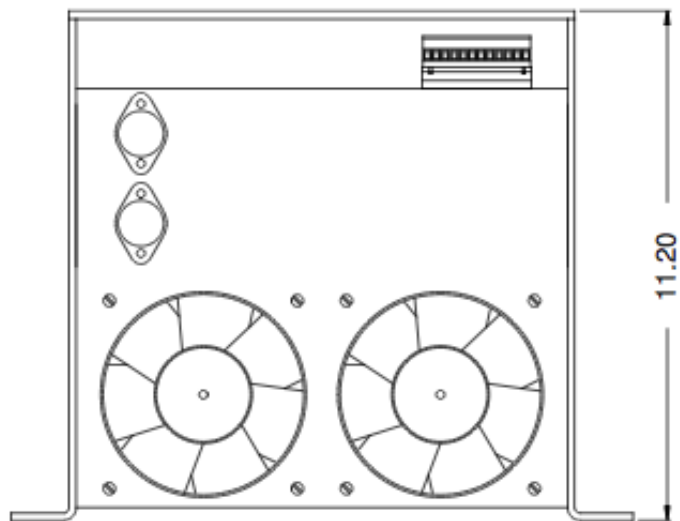
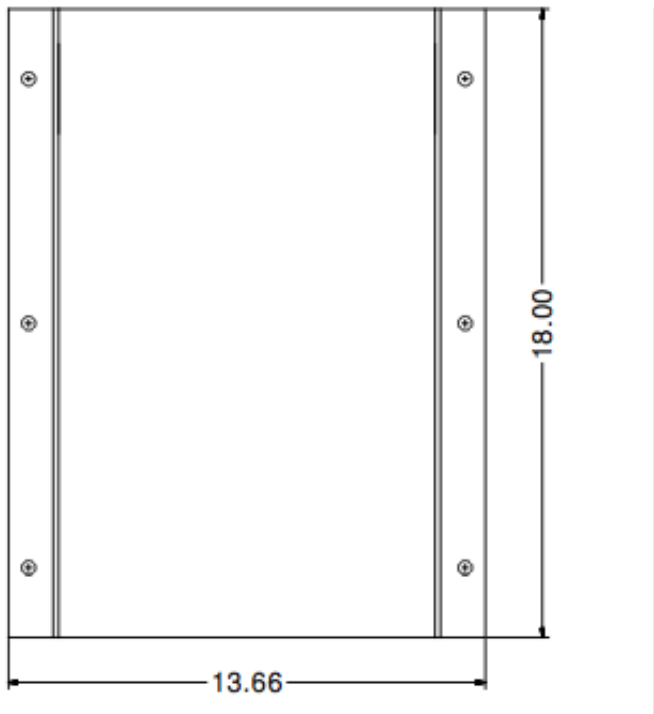
The 3869 controller can accept a variety of command signals including 0 to 5Vdc, 0 to 10Vdc, 4/20mA or a potentiometer input. Dip switches are provided to select the input ranges. The model number specifies how these switches will be set at the factory. The controller can be factory modified to accept other command signals.

The command signal input terminals are electrically isolated from the line and load voltages, and all are electrically isolated from the heatsink.

LED indicators.

LEDs are included to indicate the status of the controller.

DIMENSIONS



ORDERING INFO

3869 - (XX-300) - (XXX)Vdc - R(XX/XX) - I(XX/XX) - (TS)

Model: _____

Line Voltage: _____
 12 = 120 Vac, 24 = 240 Vac, 48 = 480 Vac (Other voltages may be available)

Output Voltage at 100% Command: _____
 125 Vdc, 250 Vdc, or 500 Vdc (Other voltages may be available)

Run Command: _____
 R0/5 Vdc, R0/10 Vdc, R4/20 mA or RPot

Idle Command: _____
 I0/5 Vdc, I0/10 Vdc, I4/20 mA, or IPot

Thermostat (Optional): _____
 TS87C = 87° C norm closed, or TS87CNO = 87° C norm, open.

CONTACT/ORDERING INFORMATION

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