

BF400 WITH 110Vac SUPPLY OPERATING MANUAL

BF400 is a manual control Burst Firing Controller. The output power is regulated by varying the On & Off cycle of the mains supply.

BF400 only allows complete mains cycle turn on or off at near zero-crossing which eliminates half cycle turn on and hence disturbance to mains supply and other users.

Specification

Supply voltage	110Vac, +/-10%
Output current	25A nominal, 40A max. for 5 minutes operation
Protection	16A type C or 3 MCB
Power ON indication	Yellow LED
Heater ON indication	Red LED, illuminated when heater (output) power is ON
Cycle time	1 minute nominal, +/-15%
Dimension	W: 177mm; D: 120mm max.; H: 175mm
Mounting pitch	2 off key holes, suitable for M5 screws, 160mm apart
Protection	IP20
Operation temperature	0 to 50 Deg. C
Storage temperature	-10 to 80 Deg. C

Installation

BF400 will dissipate about 22 watts of heat with 12A heater current. The ambient temperature must not exceed 50 deg. C to avoid damage to the switching semiconductor devices.

Wiring the controller according to the wiring diagram and check the Live and Load Connections. If they are swapped, it can caused permanent damage to a BF400.

The Power On indicator will illuminate when mains power is switched onto a BF400. By adjusting the knob, the output power can be set.

The knob has a 11 scale marking to indicate different settings. A BF400 is calibrated to have about,
 (1) at the third marking, the line parallel and close to Power On indicator, the output power is about 2 to 5%,
 (2) at the ninth marking, the line parallel and close to Heater On indicator, the output power is about 90 to 95%.

The heater On indicator illuminates when the load (heater) is switched on by the BF400.

Wiring

