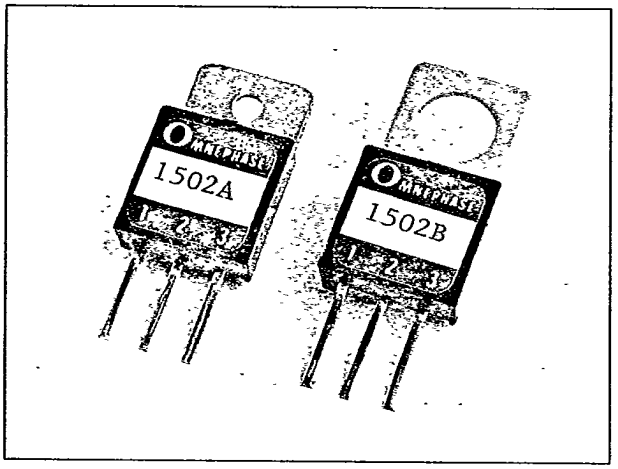
SERIES OMNEPHASE



OMNEPHASE Controls provide full-wave AC phase control in a unique, high-density epoxy-encapsulated package. Capable of governing 6000 Watts @ 120V, Omnephase are rated at 6, 10 or 15 amps and operate on 120 or 230 VAC. For greater mounting flexibility, Omnephase feature three standard terminations: metal leads, wire leads and a labor-saving wire & potentiometer set-up. Designed for high performance and longevity, the active components of the Omnephase are hermetically sealed by a void-free passivation process and then epoxy-encapsulated for added environmental protection. Omnephase have exhibited superior performance in a wide variety of applications.

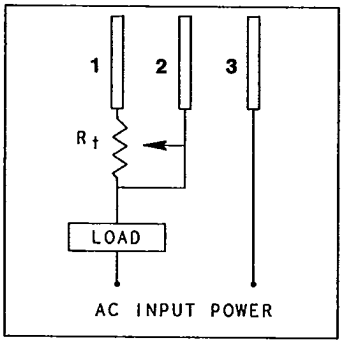
FEATURES

- ☐ Thick film technology
- ☐ Simple 3 terminal hook-up
- ☐ Twin timing capacitors for low Hysterisis effect
- ☐ Compact in size
- ☐ Heat sink or potentiometer mounting
- ☐ Epoxy-encapsulated circuit
- ☐ Low cost

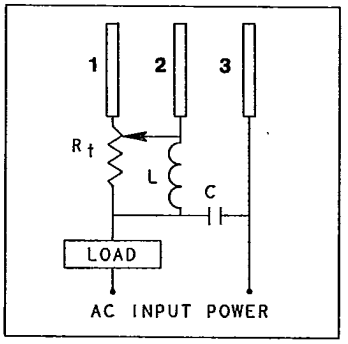
APPLICATIONS

- ☐ **SPEED CONTROL** for fans, power tools, blenders, heat guns, conveyor drives, hair dryers, mixers, Bio-medical equipment and universal, induction and subfractional H.P. motors.
- ☐ **DIMMER CONTROL** for incandescent lamps.
- ☐ **SHUNT FEEDBACK CONTROL** system.
- ☐ **TEMPERATURE CONTROL** for soldering irons, soldering pots, molding machines, heating equipment, vending machines and photographic development equipment.
- ☐ **CONTROL POWER** supplied to a remote load.
- ☐ **HEATER ELEMENT CONTROL**

CONNECTION DIAGRAMS

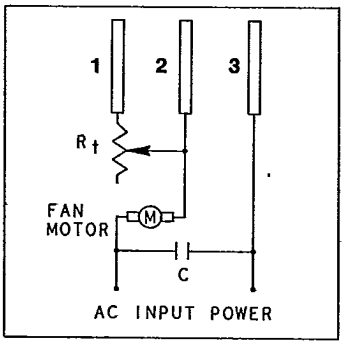


Standard Connection

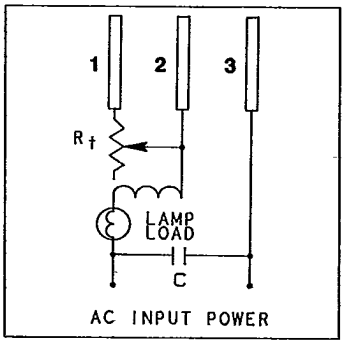


Standard Connection with RFI added*

Recommended values:
L = 100 Micro Henry
C = .1 mf 400 Volt



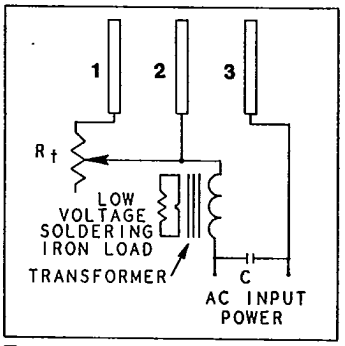
Fan Speed Control with RFI added*



Switched Rt; Replacing Potentiometer

Typical applications include Blenders, Mixers, Heater Controls, Lamp Dimmers, Speed Controls

*supplied by customer



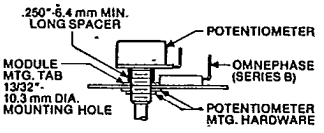
Temperature Control for Transformer Type Soldering Irons

MOUNTING

"A" Style: designed to be riveted or bolted Omnephase to a chassis or heat sink

"B" Style: designed to mount directly onto Omnephase: the 3/8" shaft of a potentiometer.

Note: ICM's Omnephase controls should be mounted to a clean, unpainted, metal or other thermally conductive surface for maximum heat dissipation. It is recommended that a heat sink compound such as Dow Corning #340 be applied between the control and the mounting surface.



All features and specifications are subject to change without notice.

Contact our Engineering Group for application assistance.

SPECIFICATIONS

Phase Control
- ☐ Low hysteresis effect
- ☐ Full wave control

Input
- ☐ 115 or 230 VAC RMS
- ☐ Frequency: 50/60 cycles

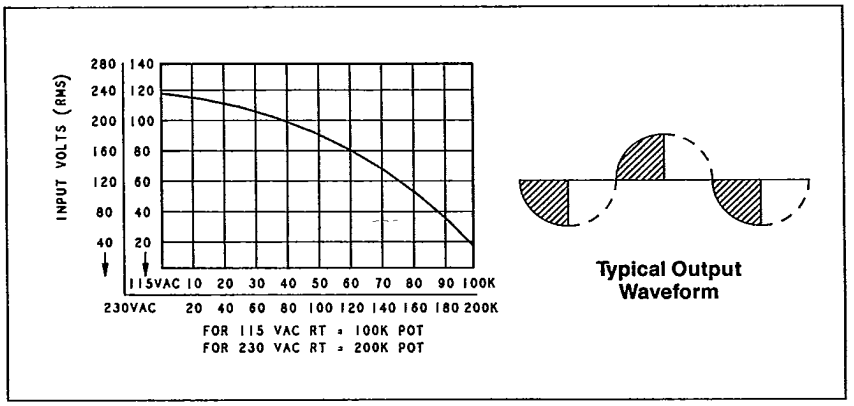
Output
- ☐ Triac-full wave AC
- ☐ Rating Max: 2,6, 10 and 15 amps Min: 40 milliamps
- ☐ Hysteresis: 15% typical
- ☐ Forward Voltage Drop: 1.5 volts
- ☐ Leakage Current: 1.5 milliamperes
- ☐ Off State Voltage: 400 Volts
- ☐ Peak Surge on State Current: 10 times related current for 1 cycle @60 HZ

Protection
- ☐ Dielectric Insulation: lead to tab 1500 volts RMS

Environmental
- ☐ Operating Temperature: -40 C to +95 C (measured at triac)
- ☐ Storage Temperature: -40 C to +105 C
- ☐ Humidity: 95% relative

Physical
- ☐ Mounting: See opposite page
- ☐ Termination: (3) 19/32" leads or 6" wires
- ☐ Weight: .4 ounces (10 grams)

Typical Output V/S External Potentiometer



ORDERING INFORMATION: *(Consult factory for variations not listed)*

TYPE = OMNEPHASE
SAMPLE PART NUMBER

15	02	A	I	P

Current Rating
6 = 6 AMPS
10 = 10 AMPS
15 = 15 AMPS
*2 = 2 AMPS

Voltage Rating
02 = 115 VAC
04 = 230 VAC

Styles
A = A Type Heat Sink
B = B Type Heat Sink

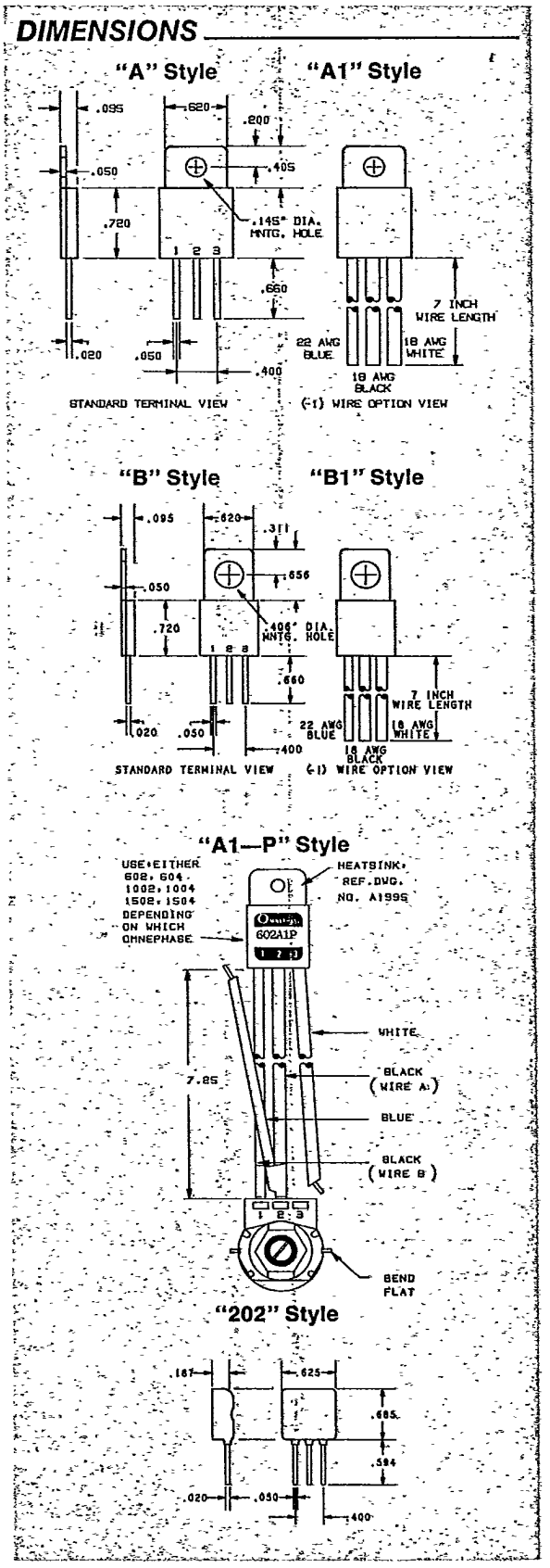
Wire Option
I = With Wires

Potentiometer Option
**P = With pot wired see Voltage Rating for value
02 POT = ACR-100K
04 POT = ACR-200K

*NOTE — Wires are not available on 2 amp series

**NOTE — Potentiometer available with "A" heatsink only

DIMENSIONS



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