

DATA SHEET D-162

KBGE Series Solid State A.C. Variable Voltage Control Assemblies

Typical Uses:

- Motor Speed Control PSC, shaded pole and AC/DC Brush Type Motors
- Heater Control
- Lamp Dimming
- Static Switching Includes inductive and resistive loads

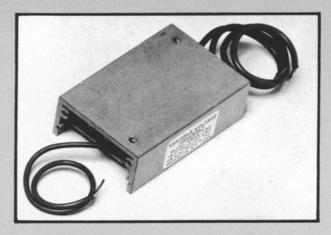
Standard Features:

- Adjustable Minimum Voltage Trim
- RFI Suppression
- Extended Range Circuitry
- · Electrically Isolated Heat Sink
- Compact Rugged Construction

Description:

The KBGE Series Solid State Triac Voltage Control Assemblies provide the design engineer versatility when used in power control applications. Their compact size only 3" x 2" x 1" allows for convenient mounting in most locations. The KBGE Series contains many features such as extended range circuitry, RFI filtering and a minimum output voltage trimpot. They are designed to provide a phase controlled symmetrical AC output for variable voltage control or static switching.

A customer supplied remote potentiometer, switch, photocell or thermistor when used in conjunction



with the KBGE Series will control loads such as motors, lamps or heaters. Motors which can be controlled are shaded pole, PSC and universal (series) types. Applications include air curtains, ventilators, heat tunnels, stirrers, theater lighting, photo copy machines and laminar flow hoods.

The Solid State control circuitry is housed in an aluminum channel which also serves as an isolated heat sink. The amperage rating of the control can be enhanced by mounting the controller to a thermally conductive mounting surface.

The KBGE Series is available in 120 and 240 volt ratings. The 240V models may also be used on 120V circuits.

MODEL NUMBER	LINE VOLTAGE (VAC 50/60 Hz) See Note 1	TRIAC CURRENT RATING (RMS AMPS) See Note 2	CONTROL CURRENT RATING- FREE AIR (RMS AMPS) See Note 3	CONTROL CURRENT RATING- EXTERNAL HEATSINK (RMS AMPS) See Note 4	POTENTIOMER RESISTANCE (OHMS) See Note 5
KBGE-115 C	120	15	7.0	12.5	250,000
KBGE-125 C	120	25	9.0	20.0	250,000
KBGE-215 C	240	15	7.0	12.5	500,000
KBGE-225 C	240	25	9.0	20.0	500,000

NOTES: (1) A 250K potentiometer should be used on 240 volt rated controls which are to be used on 120 volt circuits. (2) Triac current rating does not reflect control amperage - see control performance charts. (3) Control rating may be enhanced by attachment to auxilliary heat sink. (4) Control mounted to a 12" x 12" x 1/8" vertical aluminum panel is rated at 40° ambient temperature. For other ambients - see performance charts. (5) A standard industrial potentiometer may be used such as Allen Bradley type "J" (RV-4).

