



**GENERAL DESCRIPTION**

The series 50 is an automatic Fan Speed Modulator which varies electrical motor speed in response to changes in temperature. It is suitable for use in ventilation fan motor or condenser applications that use a permanent split capacitor or shaded pole motor designed for phase control.

**ELECTRICAL SPECIFICATIONS**

**SERIES 50-34-L420**

POWER INPUT: 120 Vac ±15%, 50/60 Hz  
 OUTPUT: Triac, 8.5 Amps(full load) maximum; 20.5 Amps(locked rotor)  
 RANGE: 35° to 95°F (2°C to 35°C)

MODULATING BAND: 6°F(3°C) preset from idle to full speed.  
 IDLE ADJUSTMENT: Field selectable, 50 to 100 Vac(0-10 on idle scale).  
 SETPOINT STABILITY: Better than ±2% of range @ 77°F(25°C)  
 SETPOINT ACCURACY: ±5% of range  
 SENSOR: NTC Thermistor 20K Ohm @ 25°C(77°F)  
 TEMPERATURE: 150°F(65°C)max case; 122°F(50°C)max free air.  
 MOUNTING: Mount on 4" x 4" electrical box protected from adverse elements.

WIRING: Comply with applicable electrical codes; wire as shown above.  
 NOTE: Connection to power should include a fast-acting circuit breaker or fuse closely rated to load current.

DRAWN: JGR  
 APPROVED:  
 DATE: 7 FEB 89  
 SCALE: ECO#2166

**QUANTEM CORPORATION**  
 TRENTON, NEW JERSEY

TITLE: **SERIES 50 VARI-SPEED FAN MODULATOR**

FEATURES/MODEL: **QUANTEM WATERTIGHT AND DUST RESISTANT**

DWG. NO: **50-34-L420**

REV: **D**

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