Hoffman Controls Product Data

708-B13A and 708-C13A Series Electronic Fan Speed Controllers



708-B13A Series Electronic Fan Speed Controller

Description

The *NEW* 708-B13A and 708-C13A Series electronic Controllers are designed to provide proportional speed control of single phase motors for variable air volume applications. The Controller may be used with shaded pole or permanent split capacitor type motors from 120V to 480VAC.

The Controller phase proportions (modulates) the single phase power to regulate RPM as determined by an electronic, temperature sensing thermostat. Direct or reverse acting functioning is available with the addition of an aquastat. A manual SPST switch provides manual changeover.

The 708-B13A and 708-C13A Series Controllers function with a fixed 2°F span over a 65°–85°F range. An optional equivalent °C range is available. The control provides independent "maximum" and "minimum" speed limit adjustments. Also included, a separate continuous minimum speed or "drop out" function at setpoint.

Variable Air Volume controls offer the optimum flow of air for the prevailing loads encountered. VAV provides maximum flow for effectively accomplishing sensible heat loads at design conditions. Minimum flow occurs when lighter loads are encountered. In the cooling mode, an added benefit can be obtained. As air flow decreases with load, additional latent cooling capacity is utilized to provide extra dehumidification. This function is most beneficial when light loads are experienced and increased dehumidification is required.

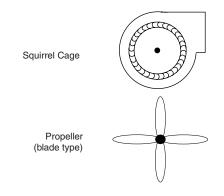
Application

The variable speed Controller is applicable for adjustment of motor RPM within a limited range of operating temperatures that assure adequate ventilation of the motor. Motors should always be evaluated at minimum reduced speed at the highest ambient operating temperature anticipated. The Controller is designed for air moving applications using squirrel cage or propeller type fans.

However, it may be suitable for other, non air-moving, direct drive motor applications. Motors should be open, drip-proof types.

The Controller heat sink is designed to operate in ambient temperatures up to 120°F. The component housing should be enclosed inside an electrical box or wiring compartment. The Controllers should not be mounted in an airtight, unventilated panel or on a heat producing surface.

The Controller should be mounted to electrically conductive material and/or be electrically grounded.



Features and Benefits

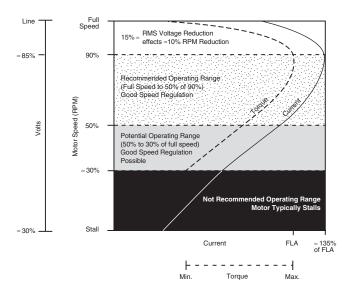
- Applicable for shaded pole or permanent split capacitor motors.
- Multi-voltage applications.
- Minimum/Maximum speed adjustments.
- Motor cut-out adjustment.
- Accessory Aquastat Part Number 510-0075-002
 - Close on Rise: Close $-88^\circ \pm 3^\circ F$; Open $-68^\circ \pm 3^\circ F$
- Optional **265-PI Interface** (Proportional Integration).
 - Shown in Product Illustration.

Specifications

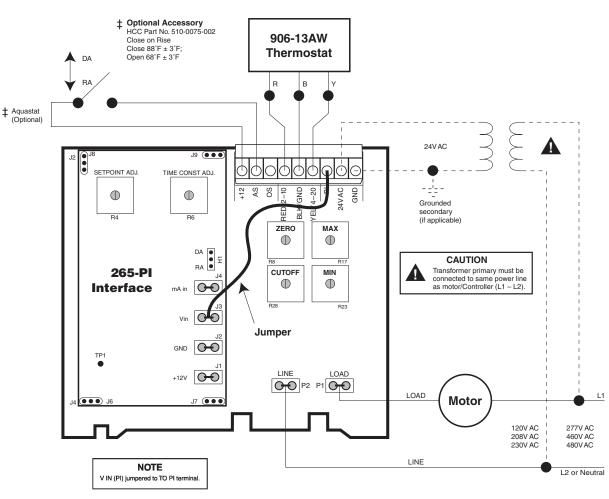
Voltage, Input (nominal)	24VAC
Power	1.0 VA
Frequency	60 Hz
Voltage, Line (nominal)	120 - 480 VAC
Current (maximum) 708-B13A 708-C13A	10 Amps 15 Amps
Input Signals Thermostat, 10K @ 77°F (25°C) Deadband (factory set)	906-13AW 2°F
Aquastat (optional) Open (default) Closed	DA Mode RA Mode
Operating Ambient	$32^{\circ}F$ to $120^{\circ}F$
Humidity	Non-condensing

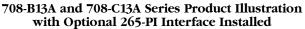
Dimensions (L x W x H)

5.56" x 3.32" x 1.25"









Hoffman|Controls

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