

APPLICATION

The Q769A is an accessory device used with the M7415A motor to enable it to be proportionately modulated with a 6-9 Vdc signal. The Q769A may also be used in lieu of a Q709A to control the minimum position of a M7415A with a 6-9 Vdc signal when a C7150B is used as a temperature sensor.

SPECIFICATIONS

The Q769A is factory calibrated such that the motor drives open from the closed position at 6.2 Vdc. A nominal M7415A will drive closed from the open position at 8.8 Vdc.

INSTALLATION

WHEN INSTALLING THIS PRODUCT...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

CAUTION

Disconnect power supply before making wiring connections to prevent electrical shock and equipment damage.

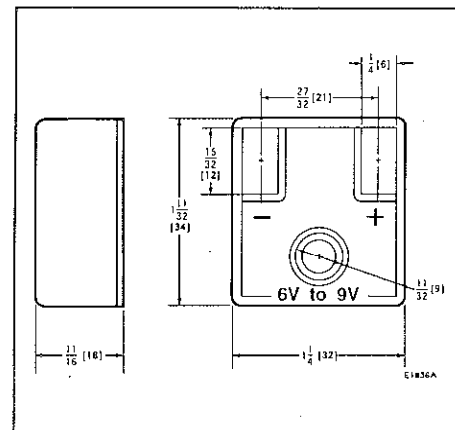


Fig. 1—Mounting dimensions in in. [mm in brackets].

MOUNTING AND WIRING

Disconnect power supply before making wiring connections to prevent electrical shock and equipment damage. All wiring must comply with applicable electrical codes, ordinances and regulations.

Q769A is supplied with female quick connect terminals which fit over 1/4 in. quick connect terminals P and P1 on the M7415 actuator. The device is plugged into the P-P1 terminals of the M7415A. It can only plug on these terminals one way.

Reversing the polarity of the D.C. voltage coming into the device will not damage the device or the M7415A. The motor will not run until this misconnection is corrected. See Figs. 2 for wiring connections.

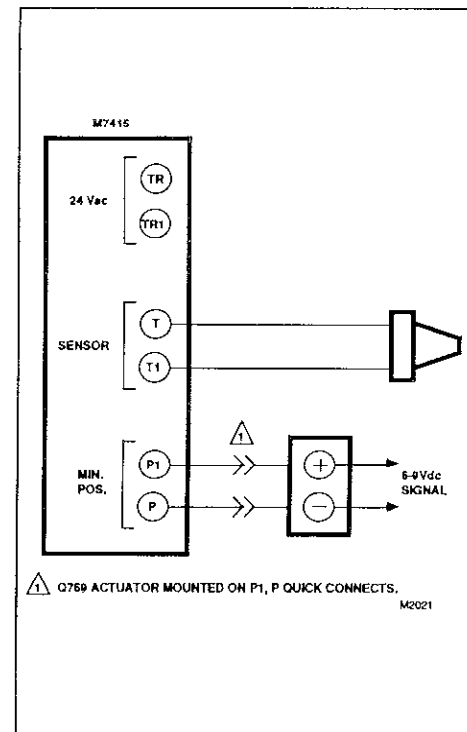


Fig. 2—Q769A applied to M7415 for 6-9 Vdc control of minimum position.

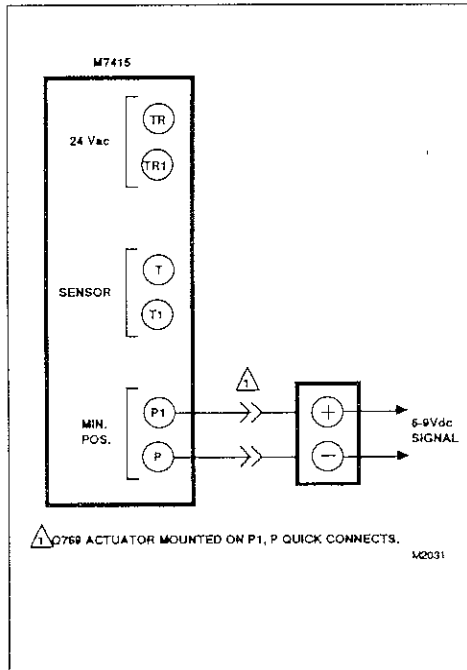


Fig. 3—Q769A applied to M7415 for 6-9 Vdc proportional control.

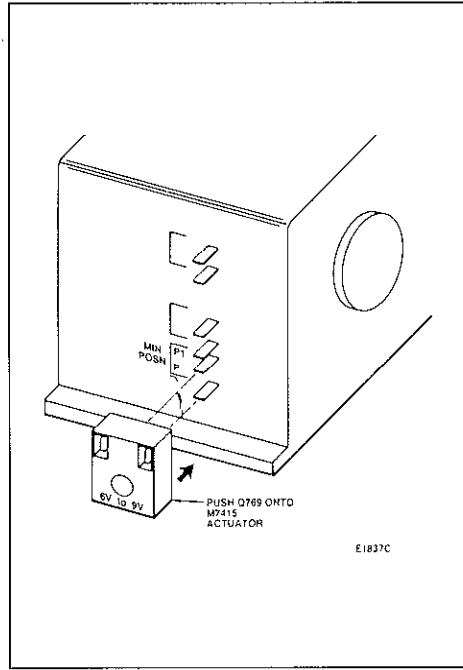


Fig. 4—Mounting Q769A, 6-9 Vdc adaptor on the actuator.

OPERATION

The Q769A calibration potentiometer is factory adjusted such that the motor begins to modulate open from the closed position at 6.2 Vdc. A nominal M7415A will begin to modulate closed from the full open position at 8.8 Vdc.

Turning on the Q769A calibration potentiometer in a counterclockwise direction decreases the voltage at which the M7415 leaves the closed position (Fig. 5). The voltage at which the M7415 leaves the open position will be decreased but to a lesser extent.

Turning the Q769A calibration potentiometer in a clockwise direction increases the voltage at which the M7415 leaves the closed position (Fig. 5). The voltage at which the M7415 leaves the open position will be increased but to a lesser extent.

NOTE: When using Q769A on the M7415A the W7459 solid state economizer module cannot be applied.

NOTE: When using Q769A on the M7415 for modulating the actuator with a 6-9 Vdc signal, the minimum position feature cannot be applied as described in the Q709 specification sheets.

MINIMUM POSITION ADJUSTMENT

The Q769A 6-9 Vdc adaptor sets the minimum position of a M7415, actuator based on a 6-9 volt signal. In an economizer system, the actuator adjusts outdoor air for cooling. The Q769 is used to set the minimum position so that a specified amount of fresh air is admitted.

M7415

1. Run motor to fully closed position and disconnect 24 Vac from terminals TR and TR1.
2. Connect Q769 6-9 volt adaptor to terminals P and P1.
3. Reconnect 24 Vac terminals TR and TR1 and adjust 6-9 volt input signal for desired minimum position.

CHECKOUT

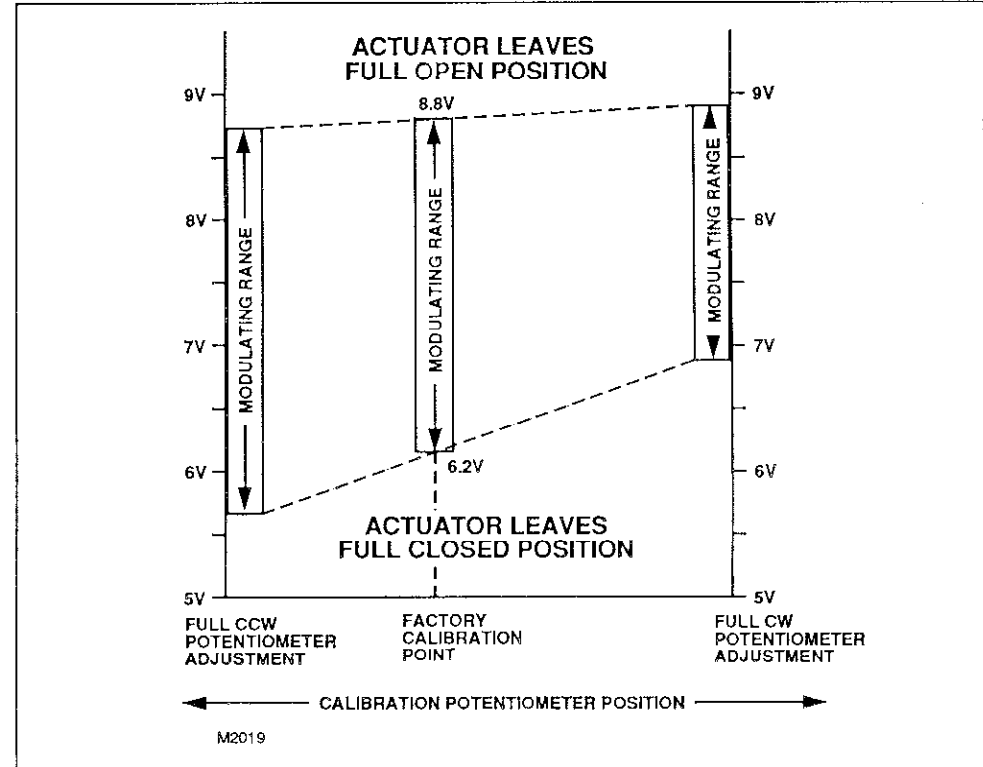


Fig. 5—Calibration.