

GE ECM Motor™ TAP Selector

Application

The ECM TAPS board provides a means to field select the output of General Electric's ECM Motor™. These are fractional horsepower motors featuring an internal microprocessor to provide exceptional efficiency, performance and motor life. The motor may be programmed for constant flow or constant torque. The ECM-TAPS allows simple and economical selection of one of four pre-programmed flows.

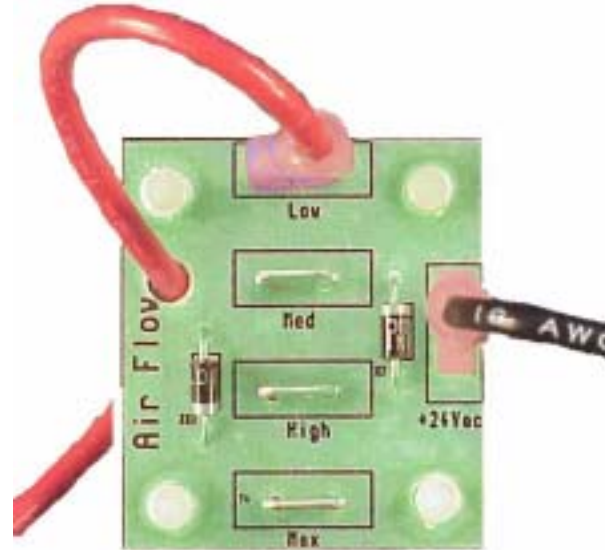
The motor is programmed by the equipment manufacturer to provide the desired flow for each tap. The output is simply selected by moving the selector wire from one tap to another. Using the equipment manufacturer's look-up chart, the torque or fan output may be quickly and accurately selected in the field without instruments.

ECM-TAPS may have one to four selectors (gangs) per board. A common application uses one gang for heating, and a second gang to select a cooling velocity.

The equipment manufacturer connects 24 Vac control power and the desired tap selector line to the board. The tap selector line may be passed through a hole provided on the board, so the selector lines do not get lost in the equipment control panel.

Ordering

ECM TAP Selector EVO/ECM-TAPS-?
? indicates 1 through 4 gang



EVO/ECM-TAPS

Specifications

Power	NEC Class II Only 24 Vac ± 20% 50/60 Hz
Operating Environment	0°F to 130°F (-18°C to 55°C) 10-80% rh
Connections	1/4 Tabs

*See the GE ECM Motor Control Manual
TAPS section*

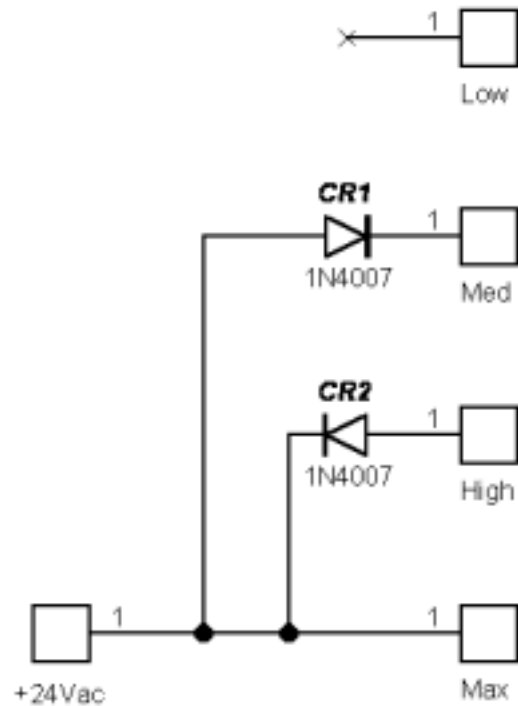
Wiring

Power the EVO/ECM-TAPS selector with a 24 Vac NEC Class II power source. Observe all code requirements regarding Class II circuits to insure a safe, reliable installation.

The 24Vac connection is electrically strapped on ganged boards, so only one 24Vac connection is required

Pass the tap selector wire through the capture hole on the PC board. Connect the tap selector wire to the desired TAP line(s) on the ECM motor. Fit the EVO/ECM-TAPS end of the selector wire with a 1/4" push on connector.

Schematic



Mounting

To simplify factory installation, four quick mount snap-in nylon posts are pre-installed in the EVO/ECM-TAPS mounting holes. These posts securely snap into 4 0.156" holes in sheet metal up to 1/6" thick. The mounting posts hold the board 0.130" above the panel surface.

The controller should be mounted inside a metal control cabinet or enclosure. Allow adequate room above the panel surface for the board with the connectors and wire installed (3.5" typical). Select a mounting location allowing the technician visibility and access to the board.

