

EON motor

New motor version for TAC Fans

The new Eon motor is a drop-in upgrade for the original ECM 2.3 motor.

The Eon motor is a fractional horsepower, integrated 3 phase permanent magnet machine, driven with a sinusoidal drive. The motor is designed for air moving applications in residential, commercial and industrial HVAC systems.

Eon is a lighter, more compact variable speed ECM that is backward compatible with the existing ECM 2.3 motor and fits easily into existing systems.



Specifications

- Variable speed operation from 200 - 1800 rpm
- 230Vac single-phase input, 50/60Hz
- Designed for direct-drive blower applications in systems
- Available in 1/3, 1/2, 3/4 and 1HP rating (1/2 and 1 HP possible in double shaft configuration)
- CE compliant
- RoHS compliant
- Backward compatible with ECM 2.3 motor
- Similar input connections to original ECM 2.3 motor

Benefits

- Reliability improvement with fully potted single control board
- Fully integrated connector ensures better protection against moisture and contaminants
- Improved starting characteristics over ECM 2.3

Changes for TAC fan users

- Motor dimensions :

| Horsepower | Motor length (mm) | |
|------------|-------------------|---------|
| | EON | ECM 2.3 |
| 1/3 | 138 | 153 |
| 1/2 | 151 | 166 |
| 3/4 | 183 | 204 |
| 1.0 | 183 | 204 |

The external dimensions of the standard Lemmens TAC fans have not change

- Connectors protection cap :

The control and power connector position on the motor was moved slightly and the enclosure is different. Therefore a new protection cap we has been developed for the Eon motor.

| Horsepower | Connector protection cap | |
|------------|--------------------------|---------|
| | EON | ECM 2.3 |
| Code id | 000692 | 000262 |

