ECM High Efficiency Motors

Elco Hi Efficiency ECM motors are drop in replacements of the traditional front mount shaded pole motors. They use all the same accessories with no extra work for an easy and hassle-free installation. These are built with ECM technology to run more efficiently, reduced CO2 emissions, longer life expectancy and quieter than the normal PSC shaded pole motors. They offer better airflow control than a PSC, up to 70%, 4 to 5 times more efficient than a regular shaded pole motor. Higher efficiency means cooler motor operation and reduced heat delivered to the refrigeration cycle, for a combined energy saving advantage and improved refrigeration quality. The ECM Series offers IP65 moisture protection grade, one of the highest in the industry. These motors are designed to satisfy the growing demands of energy savings.

Features:
- Life expectancy of 60,000+ hrs.
- Protection rating - IP65 moisture protection grade
- Totally enclosed
- All angle
- Continuous air over
- Long life sealed ball bearings

Specifications:
- Working temp: -40°C +55°C
- 50/60 Hz
- M4 Studs on 3.72” B.C. for shroud/guard
- UL recognized & CE Certified

Cross Reference:
EDA12153UC0147 Ameg Canada & US 34410013, 34410009, 24681010
EDA15253UC0176 Hill Phoenix P078449H
EDA10153UC0182 Hill Phoenix P078441C, P086237A

5KCP29 —
Form G PSC Motors

Designed for virtually every fan and blower application.

Features:
- All angle sleeve bearings
- Open construction
- Aluminum end shields
- 26 inch color-coded leads
- 2-1/2 inch resilient ring mounting
- Double shaft models shipped with base mounted (3.5 inch shaft height)
- Extended thru bolts on shaft end—extended 3/4 inch on single shaft and 1-1/2 inch on double shaft motors (on 4.6 inch bolt circle)
- Energy $aver® design
- Motor reversing leads have terminals for quick change to opposite rotation
- For accessories see pages M-50 – M-54

Specifications:
- Single phase, 60 Hertz
- Automatic reset overload protection
- Fan duty, continuous, air over
- Advanced Class B insulation
- 5 Mfd @ 370V capacitor required (MARS No. 12005)

<table>
<thead>
<tr>
<th>MARS NO.</th>
<th>GE NO.</th>
<th>HP</th>
<th>VOLTS</th>
<th>AMPS</th>
<th>RPM</th>
<th>ROT. LE</th>
<th>DIMENSIONS</th>
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1075 RPM - Double Shaft - Four Speed - 6 Pole

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1625 RPM - Double Shaft - Four Speed - 4 Pole

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SOS™ Multi-Horsepower Direct Drive Blower Motors

MARS SOS™ multi-horsepower direct drive blower motors are ideal for truck stock. Four models cover both 115 volt and 208-230 volt applications from 1/6 through 3/4 HP.

All SOS™ motors feature easy mounting in Rheem applications.

Features:
- Multi-HP
- Open end shields
- Extended mounting studs
- 2-1/2 inch resilient rings
- Reversible rotation
- All angle sleeve or ball bearings
- Capacitor requirement noted on motor label
- For accessories see pages M-50 – M-54

Specifications:
- Single phase, 60 Hz
- Overload protection
- Fan duty, continuous air over
- Open construction

Cross Reference:

<table>
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<tr>
<th>MARS No.</th>
<th>A.O. SMITH</th>
<th>EMERSON</th>
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<td>FDL6001</td>
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<td>FDL6000</td>
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1075 RPM Multi-Horsepower Reversible Rotation – 6 Pole

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<td>KGV805AS</td>
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<td>SGU83AS</td>
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* Ball Bearing
SOS™ Multi-Horsepower Outdoor Condenser Fan Motors

Ball Bearing

MARS SOS™ multi-horsepower condenser fan motors are ideal for truck stock. Three 1075 RPM models cover 208-230 volt applications from 1/6 to 1/2 HP. New Slim Stack™ #03458, WIZARD, and the new WIZARD 825 fit in many 1/3 HP installations that will not accept other manufacturer’s motors. The 03458 is a single speed “wide-range” motor that will run at any fan load from 1/6 to 1/3 HP at a nominal 1075 RPM. MARS #03459, the new WIZARD 825, will run at any fan load from 1/8 to 1/3 HP at a nominal 825 RPM. All SOS™ motors feature easy mounting in Rheem applications.

Features:
- Multi-HP
- Thru bolt or band mounting
- Rheem mounting capability
- Water slinger on shaft
- Air conditioning or heat pump duty
- Capacitor requirement noted on motor label
- End Shield drain holes w/plugs

Specifications:
- Single phase, 60 Hz
- Overload protection
- Fan duty, continuous air over
- Totally enclosed, Non-ventilated
- Class B insulation

All Angle And Shaft Up Outdoor Condenser Fan Motors

GE outdoor condenser fan motors are available for vertical shaft-up or vertical shaft-down applications. Vertical shaft-up models are also suitable for horizontal mounting. Add MARS No. 08105 resilient rings to base mount. All are electrically reversible and have full six inch shaft lengths. Models are available with sleeve or ball bearings, single or two speed in high efficiency or standard efficiency ratings.

Features:
- Reversible rotation
- Thru bolt or band mounting
- Water slinger on shaft
- Serrated end caps on vertical shaft-up models
- Full six inch shaft length
- For accessories see pages M-50 – M-54
- 6” shaft extension with 2 flats 90° apart

Specifications:
- Class “B” insulation
- Single phase, 60/50 Hertz
- Automatic thermal overload protected
- Fan duty, continuous, air over
- 26 inch leads

1075 RPM – Reversible Rotation – Energy $aver® – 6 Pole

<table>
<thead>
<tr>
<th>MARS NO.</th>
<th>GE NO. SKGP39</th>
<th>HP</th>
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<th>AMPS</th>
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<td>JGUS30S</td>
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<td>LGUS721S</td>
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<td>2.6</td>
<td>6.50</td>
<td>5.23</td>
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<tr>
<td>03460</td>
<td>RGGUS709S</td>
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<td>208-230</td>
<td>3.0</td>
<td>6.75</td>
<td>4.48</td>
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<td>03460</td>
<td>LGUS735S</td>
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<td>208-230</td>
<td>2.5</td>
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<td>LGUS733S</td>
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825 RPM – 8 Pole

<table>
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<th>MARS NO.</th>
<th>GE NO. SKGP39</th>
<th>HP</th>
<th>VOLTS</th>
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</tbody>
</table>

* Heat Shield
### Condenser Fan Motors

#### Vertical Outdoor Condenser Fan Motors

**Shaft-Up/Down**

**Ball Bearing**

GE up/down outdoor condenser fan motors are designed for either vertical shaft-up or shaft-down applications. Shell and end shields are enclosed for weather protection. A weep hole is provided in each end shield to allow condensate to drain. A plastic plug is provided to seal the weep hole in the end shield exposed to the weather. All of these motors are suitable for air conditioning or heat pump applications. All feature reversible rotation, 208-230 volts, six inch shaft length and extended thru bolts extending from both ends.

**Features:**
- Thru bolt or band mounting
- All angle mounting
- Water slinger on shaft:
- Serrated end cap on shaft end only
- For air conditioning or heat pumps
- Full six inch shaft length with two full flats at 90°
- Reversible rotation
- For accessories see pages M-50 – M-54
- Rheem mtg. holes (mtg. hardware included)

**Specifications:**
- 60 Hertz
- Single phase
- Overload protected
- Fan duty, continuous, air over
- 26 inch leads
- Totally enclosed, non-ventilated
- Class B insulation

**Reversible Rotation**

<table>
<thead>
<tr>
<th>MARS NO.</th>
<th>GE NO.</th>
<th>SKCP39</th>
<th>HP</th>
<th>VOLTS</th>
<th>AMPS</th>
<th>RPM (1)</th>
<th>CAP</th>
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<td>5/370</td>
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**1075 RPM - Single Speed - Standard Efficiency - 6 Pole**

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<td>1075</td>
<td>10/370</td>
<td>6.0</td>
<td>5.98</td>
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</table>

(1) Low speed approximately 300 RPM less than high speed depending on fan load
(2) Both end shields flat, no serrated end cap
(3) 26” leads

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**Vertical Outdoor Condenser Fan Motors**

**Shaft-Up/Down**

GE up/down outdoor condenser fan motors are designed for either vertical shaft-up or shaft-down applications. Shell and end shields are enclosed for weather protection. A weep hole is provided in each end shield to allow condensate to drain. A plastic plug is provided to seal the weep hole in the end shield exposed to the weather. All of these motors are suitable for air conditioning or heat pump applications. All feature reversible rotation, 208-230 volts, six inch shaft length and extended thru bolts extending from both ends.

**Features:**
- Up/down design
- Thru bolt or band mounting
- All angle sleeve bearings
- Water slinger on shaft
- Serrated end cap on shaft end only
- For air conditioning or heat pumps
- Full six inch shaft length with two full flats at 90°
- Reversible rotation
- 48 inch leads
- For accessories see pages M-50 – M-54

**Specifications:**
- 60 Hertz
- Single phase
- Overload protected
- Fan duty, continuous, air over
- 26 inch leads
- Totally enclosed, non-ventilated
- Class B insulation

**Reversible Rotation**

<table>
<thead>
<tr>
<th>MARS NO.</th>
<th>GE NO.</th>
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**825 RPM - Single Speed - 8 Pole**

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<td>208-230</td>
<td>3.0</td>
<td>1075</td>
<td>10/370</td>
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<td>SG103S</td>
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<td>208-230</td>
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<td>1075</td>
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<td>SGY805S</td>
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<td>10/370</td>
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</table>

(1) Low speed approximately 300 RPM less than high speed depending on fan load
(2) Both end shields flat, no serrated end cap
(3) 26” leads

---

**Toll Free (800) 445-4155 • Fax (631) 348-7160**

www.marsdelivers.com
GE outdoor condenser fan motors for vertical shaft-up applications are also suitable for horizontal mounting. GE vertical shaft-up outdoor condenser fan motors are designed for 60°C ambient temperature. Add MARS No. 08105 resilient rings to base mount.

GE commercial 460 volt outdoor condenser fan motors are designed for 70°C ambient so lower operating temperatures = improved life and reliability.

**Features:**
- Reversible rotation
- Thru bolt or band mounting
- Water slinger on shaft
- Serrated end caps on vertical shaft-up models
- Full six inch shaft length
- For accessories see pages M-50 – M-54

**Specifications:**
- Class B insulation
- Single phase, 60/50 Hertz
- Automatic thermal overload protected
- Fan duty, continuous air over
- 26 inch leads

**Shaft-Up Or Horizontal Mount**

**All Angle**

**825 RPM - Reversible Rotation - Standard Efficiency**

**Shaft-Up Or Horizontal Mount**

**All Angle**

---

(1) 60 Hertz only
(2) Two full flats at 90°
(3) Class A Insulation
(4) Rheem shell mtg. holes
5KCP39 Permanent Split Capacitor Motors

**Features:**
- Energy Saver®
- For use in air moving applications
- Single speed
- All angle sleeve bearings
- 2-1/4 inch resilient rings
- 4.0 inch long, 1/2 inch diameter shaft
- For accessories see pages M-50 – M-54

**Specifications:**
- Single phase, 60/50 Hertz
- Overload protection
- Fan duty, continuous, air over
- 26 inch leads
- Class A insulation

5KCP39 PSC 460 Volt Motors

**Ball Bearing**

**Features:**
- Energy Saver®
- For use in air moving applications
- 460 volt, 2-speed
- All angle
- Extended thru bolts
- Capacitor included
- 08105 for cradle mount, serrated end caps
- For accessories see pages M-50 – M-54

**Specifications:**
- Single phase, 60/50 Hz
- Overload protection
- Fan duty, continuous, air over
- Enclosed shell, open end shields
- 26 inch leads
- Class A insulation

### 1075 RPM – Reversible Rotation - 6 Pole

<table>
<thead>
<tr>
<th>MARS NO.</th>
<th>GE NO.</th>
<th>SKCP39</th>
<th>HP</th>
<th>VOLTS</th>
<th>AMPS</th>
<th>CAP. (FURNISHED)</th>
<th>DIMENSIONS A</th>
<th>B</th>
<th>C</th>
<th>BASE NO.</th>
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<td>KGC519ET</td>
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<td>460</td>
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<td>7.5/370</td>
<td>6.0, 5.56</td>
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<td>03290</td>
<td>PGC520ET</td>
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<td>460</td>
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<td>15/370</td>
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### 1625 RPM – Reversible Rotation - 4 Pole

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<th>AMPS</th>
<th>CAP. (FURNISHED)</th>
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<tr>
<td>03490</td>
<td>NGC522ES</td>
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<td>460</td>
<td>1.7</td>
<td>7.5/370</td>
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### 1075 RPM - 6 Pole

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<th>VOLTS</th>
<th>AMPS</th>
<th>ROT OSE</th>
<th>CAP. REQ.</th>
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<td>115</td>
<td>2.3</td>
<td>CCW</td>
<td>5/370</td>
<td>4.0</td>
<td>4.23/4.39</td>
<td>08053</td>
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<td>CG3306ET</td>
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<td>208-230</td>
<td>0.9</td>
<td>CCW(1)</td>
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<td>4.23/4.39</td>
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<td>5.73/5.89</td>
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(1) Mechanically reversible (2) Class B insulation

### 1625 RPM - 4 Pole

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<th>HP</th>
<th>VOLTS</th>
<th>AMPS</th>
<th>ROT OSE</th>
<th>CAP. REQ.</th>
<th>DIMENSIONS A</th>
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<td>4.23/4.39</td>
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<td>208-230</td>
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<td>CCW</td>
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<td>4.73/4.89</td>
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<td>CCW</td>
<td>5/370</td>
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<td>4.98/5.14</td>
<td>08056</td>
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</table>
PSC Direct Drive Blower Motors

These GE 6KCP39 PSC motors are designed for use as direct drive furnace blower motors. All are three speed, high efficiency, Energy $aver® models and are electrically reversible. Motors have 2-1/4 inch resilient rings for base mounting. Four (4) split rings included if 2-1/2 inch diameter shaft is required. Bases are sold separately.

Features:
- All angle sleeve bearings
- 3 speeds
- 1/2 inch extended thru bolts
- Ring kit allows 2-1/4 inch & 2-1/2 inch resilient ring mounting
- Reversible rotation
- 4 inch long, 1/2 inch diameter shaft
- For accessories see pages M-50 – M-54

Specifications:
- Single phase, 60/50 Hertz
- Overload protection
- Fan duty, continuous, air over
- Open construction
- 26 inch leads
- Class B insulation

Reversible Rotation — Energy $aver®

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<th>MARS NO.</th>
<th>GE NO.</th>
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<th>HP</th>
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<th>AMPS</th>
<th>CAP. REQ.</th>
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<th>DIMENSIONS</th>
<th>B</th>
<th>C</th>
<th>BASE NO.</th>
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1625 RPM(1) — Three Speed - 4 Pole

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<th>HP</th>
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1075 RPM — Reversible Rotation - Standard Efficiency - 6 Pole

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| Two Speed(3) |
| 03383(2) | FG431S | 1/4 | 115 | 4.2 | 5.37 | 4.0 | 4.89 | 1/2 | 08055 |
| 03384 | FG433S | 1/4 | 208-230 | 2.0 | 5.37 | 4.0 | 4.89 | 1/2 | 08055 |
| 03385(2) | JG439S | 1/3 | 115 | 6.2 | 5.37 | 4.0 | 5.14 | 1/2 | 08056 |
| 03386 | JG440S | 1/3 | 208-230 | 2.9 | 5.37 | 4.0 | 5.14 | 1/2 | 08056 |
| 03387 | PG438S | 1/2 | 115 | 9.0 | 5.37 | 4.0 | 6.14 | 1/2 | 08060 |
| 03388 | PG437S | 1/2 | 208-230 | 4.3 | 5.37 | 4.0 | 5.89 | 1/2 | NA |
| 03389 | PG991T | 3/4 | 115 | 10.3 | 15/30 | 4.0 | 6.14 | 1/2 | 08060 |
| 03390(2) | PG992T | 3/4 | 208-230 | 4.4 | 10/30 | 4.0 | 6.14 | 1/2 | 08060 |

5KCP39 PSC Torsion Flex Mount Motors

GE torsion-flex mount motors are designed for direct drive furnace blower applications. The unique torsion-flex mounting speeds installation while the special steel of the torsion-flex bracket absorbs vibration for quieter operation. All models are electrically reversible, 3-speed motors of high efficiency Energy $aver® design.

Features:
- Energy $aver®
- All angle sleeve bearings
- 3-Speed 1075/925/775 RPM(1)
- Torsion-flex mounting, grommets and sleeves included
- 5.0 inch long, 1/2 inch diameter shaft
- Reversible rotation

Specifications:
- Class A insulation
- Single phase, 60/50 Hertz
- Overload protection
- Fan duty, continuous, air over
- Open construction
- 26 inch leads
Ball Bearing Unit Heater Motors

GE 5KCP39 ball bearing motors are designed for unit heater applications. Each motor includes base and capacitor, and also features extended thru bolts. These electrically reversible motors are totally enclosed with a BX connector on the shell and 60 inch leads.

Features:
- Energy Saver®
- Mounting base and capacitor included
- Totally enclosed with BX connector and extended thru bolts
- 60 inch leads
- Class A insulation

Specifications:
- Single phase, 60/50 Hertz
- Overload protected
- Open construction
- Fan duty, continuous, air over
- 60 inch leads

5KCP39 Double Shaft Motors • Three Speed

GE 5KCP39 double shaft Energy Saver® motors are designed for a wide variety of air moving applications. All motors feature double 1/2 inch diameter shafts and include length adapter mounting kit.

Features:
- All angle sleeve bearings
- Extended thru bolts, 2.25 inch resilient rings
- Length adapter and mounting kit included
- For accessories see pages M-50 – M-54

Specifications:
- Class A insulation
- Single phase, 60/50 Hertz
- Overload protected
- Open construction
- Fan duty, continuous, air over
- 14 inch leads

1075 RPM – Reversible Rotation - 6 Pole

<table>
<thead>
<tr>
<th>MARS NO.</th>
<th>GE NO. 5KCP39</th>
<th>HP</th>
<th>VOLTS</th>
<th>AMPS</th>
<th>CAP. (FURNISHED)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>03206</td>
<td>EGC336T</td>
<td>1/6</td>
<td>115</td>
<td>2.2</td>
<td>5/370</td>
<td>5.0  4.89 1/2</td>
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<tr>
<td>03208</td>
<td>JGC337T</td>
<td>1/4</td>
<td>115</td>
<td>3.3</td>
<td>10/370</td>
<td>5.0  5.14 1/2</td>
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<tr>
<td>03210</td>
<td>HGC338T</td>
<td>1/4</td>
<td>208-230</td>
<td>1.4</td>
<td>7.5/370</td>
<td>5.0  5.14 1/2</td>
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<tr>
<td>03212</td>
<td>NGC339T</td>
<td>1/3</td>
<td>115</td>
<td>4.9</td>
<td>10/370</td>
<td>5.0  6.14 1/2</td>
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</tbody>
</table>

1625 RPM - 4 Pole

<table>
<thead>
<tr>
<th>MARS NO.</th>
<th>GE NO. 5KCP39</th>
<th>HP</th>
<th>VOLTS</th>
<th>AMPS</th>
<th>CAP. (FURNISHED)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0351</td>
<td>CG044T</td>
<td>1/6</td>
<td>115</td>
<td>2.0</td>
<td>5/370</td>
<td>4.44-5.69 8.77 1/2</td>
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<tr>
<td>0352</td>
<td>CG047T</td>
<td>1/5</td>
<td>208-230</td>
<td>1.1</td>
<td>5/370</td>
<td>4.69-5.81 7.02 1/2</td>
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<tr>
<td>0353</td>
<td>FG048T</td>
<td>1/4</td>
<td>115</td>
<td>2.9</td>
<td>5/370</td>
<td>4.88-6.13 8.27 1/2</td>
</tr>
<tr>
<td>0354</td>
<td>EG049T</td>
<td>1/4</td>
<td>208-230</td>
<td>1.2</td>
<td>5/370</td>
<td>4.94-6.19 8.27 1/2</td>
</tr>
<tr>
<td>0355</td>
<td>HG050T</td>
<td>1/3</td>
<td>115</td>
<td>4.1</td>
<td>5/370</td>
<td>5.44-6.69 8.27 1/2</td>
</tr>
<tr>
<td>0356</td>
<td>HG051T</td>
<td>1/3</td>
<td>208-230</td>
<td>1.9</td>
<td>5/370</td>
<td>5.44-6.69 8.27 1/2</td>
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<tr>
<td>0357</td>
<td>MG5312T</td>
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<td>6.4</td>
<td>5/370</td>
<td>5.50 7.52 1/2</td>
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<td>0358</td>
<td>MG5313T</td>
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<td>5/370</td>
<td>5.50 7.52 1/2</td>
</tr>
</tbody>
</table>

(1) Approximately 150 RPM differential between speeds depending on fan load
(2) Available without mounting kit—see page M-54
Double Shaft Fan & Blower Motors & Direct Drive Blower Motor

**PSC Motors Replace 5KCP32 & 5KCP38**

**Features:**
- Energy Saver®
- Replace GE 5KCP32-38
- All angle sleeve bearings
- Two-speed, 1075/775 RPM(2) double shaft
- Extended thru bolts, base included, plus 4 split rings
- 14 inch leads
- For accessories see pages M-50 – M-54

**Specifications:**
- Single phase, 60/50 Hertz
- Open construction
- Overload protected
- Fan duty, continuous, air over
- 3 inch shaft height when base mounted

**1075/775 RPM**

<table>
<thead>
<tr>
<th>MARS NO.</th>
<th>GE NO. 5KCP</th>
<th>HP</th>
<th>VOLTS</th>
<th>AMPS</th>
<th>ROT LE</th>
<th>CAP. REQ.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tr>
<td>03092(2)</td>
<td>E39GD369T 1/2 208-230 3 8 CCW</td>
<td>5/370</td>
<td>8.00</td>
<td>6.46</td>
<td>8.50</td>
<td>1/2</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

(1) Approximately 300 RPM differential between speeds depending on fan load

(2) 60 Hertz only

**5KCP39 PSC Double Shaft Motors**

**Features:**
- All angle sleeve bearings
- 3 speed, 1075/925/775 RPM
- Extended thru bolts
- Base mount using mounting kit 08095 and appropriate base
- Double 1/2 inch diameter shafts
- For accessories see pages M-50 – M-54

**Specifications:**
- Single phase, 60/50 Hertz
- Open construction
- Fan duty, continuous, air over
- 3 inch shaft height when base mounted

**600 - 1075 RPM**

<table>
<thead>
<tr>
<th>MARS NO.</th>
<th>MODEL NO.</th>
<th>HP</th>
<th>VOLTS</th>
<th>ROT</th>
<th>MARS PACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>06005</td>
<td>SSME39HXL110 1/5, 1/4, 1/3, 1/2</td>
<td>115/230</td>
<td>REV</td>
<td>1</td>
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<tr>
<td>06010</td>
<td>SSME39XL111 1/2, 3/4, 1</td>
<td>115/230</td>
<td>REV</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Evergreen IM**

Evergreen IM is the world’s first high-efficiency ECM replacement motor that is designed to replace factory PSC blower motors in HVAC systems. Built from the same trusted, field-proven ECM technology that is found in millions of OEM systems nationwide, Evergreen uses up to 25% fewer watts in operating mode and up to 74% fewer Watts than a PSC motor in constant fan.

Evergreen’s ECM controls combine thermostat commands with an advanced permanent-magnet design to run more efficiently and quietly while offering better airflow control than a PSC. The Evergreen IM is a great replacement for any PSC air-handler motor, adding up to 1 SEER point to an existing system. The motor’s airflow benefits are especially important to homeowners who run (or would like to run) in constant fan mode for better comfort, improved IAQ products, or improved zoning airflow.

**Applications:**
- Direct drive, 115 or 230VAC motor systems
- Clock-wise (CW) or counter clock-wise (CCW) rotation
- Residential split and packaged systems
- Air conditioning or heat pump systems
- Natural gas, propane and oil heat furnaces
- Dual fuel systems
- Hot water coil and geothermal air handlers

**Features:**
- Two motors cover all applications
- Multi-volt 115/230 and reversible rotation
- Integrated with HVAC system controls/operation
- Four speed selections for heating and cooling
- Optimized constant fan speed
- Two (2) year warranty
- Reduce truck stock, no capacitors to change out or stock
- For accessories see pages M-50 – M-54

**Average Annual Energy Savings**

- **Heat and Cool Operation** - up to $60 at 10¢ / kWh
- **Constant Fan Operation** - up to $268 at 10¢ / kWh

**Heat and Cool Operation - up to $60 at 10¢ / kWh**

**Constant Fan Operation - up to $268 at 10¢ / kWh**
GE TECMate Pro™ Service Tool

The Tecmate Pro™ Service Tool, MARS stock #08500 is the latest advance in ECM technology developed by and for Genteq Motors. The Tecmate allows the service technician to analyze a Genteq ECM motor independently of the HVAC system in which it is installed. The Tecmate can test all the basic settings of a Genteq ECM motor, and can detect and isolate motor failures from HVAC system failures.

Genteq is the leader in ECM motor technology. ECM motor applications are a fast growing segment of the residential and light commercial HVAC market. Genteq’s advanced designs in ECM motors are at the forefront of high efficiency equipment design.

Compact
Easy To Use
See Additional ECM Accessories on page 48

MARS NO. DESCRIPTION
08500 TECMate ECM Motor Tester

Broad Ocean ECM Motor Tester (Digimotor Test Tool)

Save time and money with the Broad Ocean ECM Motor Tester

• Isolates any issues to either the motor or the control board and the control wiring

NOTE: This tool is for Broad Ocean OEM Digi-Motors only. This tool is not compatible with Azure®.

Kit Contents:
Broad Ocean ECM Tool
Type A test Connector (Furnaces, AH & Packaged)
Type B Test Connector (Packaged Units)
Type C Test Connector (Air Handlers)
Type D Test Connector (Outdoor Condenser Fan Motors)

MARS NO. DESCRIPTION
08503 Broad Ocean ECM Motor Tester

760-ECM Motor Speed Controller

The 760-ECM motor speed controller is designed to provide manually adjustable proportional speed control for all sizes and voltages of ECM DC Brushless motors. Manual speed control is accomplished by adjusting the control pot in the clock-wise direction to increase motor speed. Adjusting the pot in the counter clockwise direction will slow down and eventually stop the motor as the PWM signal is removed.

The 760-ECM is line voltage independent and requires only a 24VAC supply. This unit is fully enclosed and can be mounted in standard electrical boxes. Variable speed control is accomplished via a Pulse Width Modulated (PWM) output signal. The PWM signal operates at a nominal 13.5VDC at 80Hz and is capable of sourcing up to 5mA drive current to drive a single motor.

Specifications:
• Motor speed: Manual adjustable
• Input voltage: 24VAC (+20%/-10%)
• Output: 0% to 100% PWM @ 80 Hz
  ° 13.5VDC, 5mA (max.)
  ° Max wire length (twisted pair) 100 ft.
• Humidity: 95% non-condensing
• Operating ambient temperature: 32°F - 120° F
• Dimensions (L x W x H): 4.25” x 2.40” x 1.25”

MARS NO. DESCRIPTION
08500 TECMate ECM Motor Tester

MARS NO. DESCRIPTION MARS PACK
08503 Broad Ocean ECM Motor Tester 1

CAUTION

If a ground reference is applied to the 24VAC power source, the “grounded” lead must be connected to terminal 24V COM ONLY.

NOTE: This tool is for Broad Ocean OEM Digi-Motors only. This tool is not compatible with Azure®.

Kit Contents:
Broad Ocean ECM Tool
Type A test Connector (Furnaces, AH & Packaged)
Type B Test Connector (Packaged Units)
Type C Test Connector (Air Handlers)
Type D Test Connector (Outdoor Condenser Fan Motors)

MARS NO. DESCRIPTION
08503 Broad Ocean ECM Motor Tester

Toll Free (800) 445-4155 • Fax (631) 348-7160 www.marsdelivers.com