

# DC Permanent Magnet SCR Rated, Totally Enclosed C-Face Footed (Removable Base)



## Features:

- Class F insulation
- NEMA C-Face with removable rigid base
- Oversized brushes for extra long life
- Permanently lubricated sealed ball bearings
- Linear speed/torque characteristics over entire speed range
- High starting torque, high peak current capability
- Usable on PWM type DC adjustable speed drives at higher HP rating
- Easy brush access with unique brush holder design
- UL Recognized and CSA Certified

| HP    | RPM  | DC VOLTS | FRAME     | ENCL. | CAT. NO. | MODEL NO.   | STOCK | LIST PRICE | MULT. SYMB. | C.T. SPEED RANGE | F.L. AMPS | PWM HP RATING | "C" DIM. | FOOT NOTES |
|-------|------|----------|-----------|-------|----------|-------------|-------|------------|-------------|------------------|-----------|---------------|----------|------------|
| 1/4   | 1750 | 90       | 56C       | TEFC  | Z602     | 56E17F1001  | ★     | \$463      | D1          | 2:1              | 2.5       | 0.40          | 10.81    |            |
|       | 1750 | 180      | 56C       | TEFC  | Z603     | 56E17F1002  | ★     | \$463      | D1          | 2:1              | 1.4       | 0.50          | 11.31    |            |
| 1/3   | 1750 | 90       | 56C       | TEFC  | Z604     | 56E17F1003  | ★     | \$491      | D1          | 2:1              | 3.5       | 0.50          | 11.31    |            |
|       | 1750 | 180      | 56C       | TEFC  | Z605     | 56E17F1004  | ★     | \$491      | D1          | 2:1              | 1.7       | 0.50          | 11.31    |            |
| 1/2   | 1750 | 90       | 56C       | TEFC  | Z606     | 56E17F1005  | ★     | \$547      | D1          | 2:1              | 5.0       | 0.70          | 11.81    |            |
|       | 1750 | 180      | 56C       | TEFC  | Z607     | 56E17F1006  | ★     | \$547      | D1          | 2:1              | 2.5       | 0.56          | 11.81    |            |
| 3/4   | 1750 | 90       | 56C       | TEFC  | Z610     | 56E17F1007  | ★     | \$664      | D1          | 2:1              | 7.6       | 1.00          | 13.81    |            |
|       | 1750 | 180      | 56C       | TEFC  | Z611     | 56E17F1008  | ★     | \$664      | D1          | 2:1              | 3.8       | 1.00          | 13.81    |            |
| 1     | 1750 | 90       | 56C       | TEFC  | Z612     | 56E17F2005  | ★     | \$811      | D1          | 2:1              | 10.0      | 1.25          | 15.81    |            |
|       | 1750 | 180      | 56C       | TEFC  | Z613     | 56E17F2006  | ★     | \$811      | D1          | 2:1              | 5.0       | 1.25          | 14.81    |            |
| 1 1/2 | 1750 | 180      | 56C       | TEFC  | Z614     | 56E17F2007  | ★     | \$1,014    | D1          | 2:1              | 7.6       | 1.75          | 16.81    |            |
|       | 1750 | 180      | 145TC     | TEFC  | Z615     | 145TEFR5326 | ★     | \$1,540    | D1          | 2:1              | 7.5       | 1.50          | 18.34    |            |
| 2     | 1750 | 180      | 145TC     | TEFC  | Z616     | 145TEFR5327 | ★     | \$1,837    | D1          | 2:1              | 9.5       | 2.00          | 20.15    |            |
|       | 1750 | 180      | 182/145TC | TEFC  | Z617     | 182TEFR5326 | ★     | \$1,837    | D1          | 2:1              | 9.5       | 2.00          | 19.34    | 84         |

## SCR PMDC motors on PWM power supplies

Pulse width modulated DC controls have a voltage output similar to pure direct current which has a form factor of 1.05. SCR thyristor drives have a form factor of 1.40. Marathon Electric's non-Explosion Proof PMDC, SCR-rated motors can also be used with PWM controls, and due to the lower form factor and the resultant lower heating in the motor, their rating can be increased as indicated above. Operation on PWM controls will also result in quieter operation and longer brush life.