

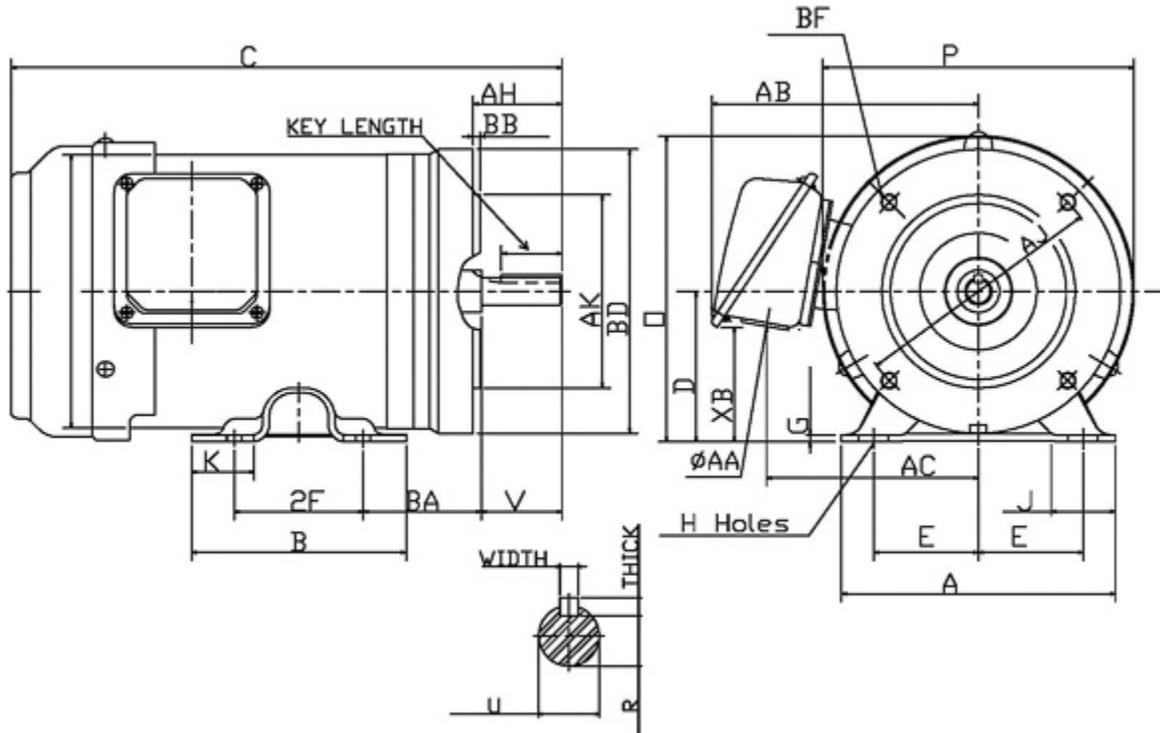
Technical Documentation

**RF0/34C**  
**Rolled Steel TEFC | AEGHPE**

Date: July 10, 2017

### Dimensional Drawing

| Catalogue | Model  | HP   | Pole | kW   | Rating     | Voltage     | Hz | RPM  |
|-----------|--------|------|------|------|------------|-------------|----|------|
| RF0/34C   | AEGHPE | 0.33 | 4    | 0.25 | Continuous | 230 / 460 V | 60 | 1800 |



| Frame Size       | Mounting |      |          |           |                    | A           | B          | C     | CD                           | D          |         |
|------------------|----------|------|----------|-----------|--------------------|-------------|------------|-------|------------------------------|------------|---------|
|                  | E        | 2F   | 2F2      | H         | BA                 |             |            |       |                              |            |         |
| 56C              | 2.44     | 3    |          | 0.34x0.68 | 2.75               | 6.38        | 3.94       | 10.58 |                              | 3.5        |         |
| G                | J        | K    | L        | M         | O                  | P           | T          | Key   |                              |            | Keyseat |
| 0.16             | 1.54     |      |          |           | 6.81               | 6.61        |            | Width | Thick                        | Length     | R       |
|                  |          |      |          |           |                    |             |            | 0.188 | 0.188                        | 1.41       | 0.517   |
| Terminal Housing |          |      | Aux Box  |           |                    | C/D Flange  |            |       |                              |            |         |
| AA               | AB       | AC   | XB       | AE        | AX                 | BB          | AH         | AK    | BD                           | Aj         | BF      |
| 1.1              | 5.87     | 4.64 | 2.61     |           |                    | 0.16        | 2.06       | 4.5   | 6.61                         | 5.875      | 3/8-16  |
| Shaft Extension  |          |      | Bearings |           | Approx. Weight Lbs | SPL dBA/3ft | Ins. Class | S.F.  | Drive Method                 | Dimensions |         |
| N-W              | U        | V    | DE       | NDE       |                    |             |            |       |                              |            |         |
| 1.875            | 0.625    | 1.88 | 6204ZZ   | 6203ZZ    | 22                 | 53.5        | F          | 1.15  | Direct Coupling / Belt Drive | Inches     |         |

### Technical Data Sheet

Motor Type: AEGHPE

Catalogue No: RF0/34C

#### Nameplate Information

|           |            |                |             |             |                |                |
|-----------|------------|----------------|-------------|-------------|----------------|----------------|
| HP        | Pole       | RPM            | Frame       | Voltage     | Hz             | Phase          |
| 0.33      | 4          | 1735           | 56C         | 230 / 460   | 60             | 3              |
| Enclosure | Ins. Class | Service Factor | Time Rating | NEMA Design | Rated Amb.     | Rated Altitude |
| TEFC      | F          | 1.15           | Continuous  | B           | -40 to 40°C °C | <3300 ft       |

#### Typical Performance

| Efficiency (%)    |                             |                                 |                                      | Power Factor (%)    |           |                                |
|-------------------|-----------------------------|---------------------------------|--------------------------------------|---------------------|-----------|--------------------------------|
| Full Load         |                             | 3/4 Load                        | 1/2 Load                             | Full Load           | 3/4 Load  | 1/2 Load                       |
| Nom.              | Min.                        |                                 |                                      |                     |           |                                |
| 75.5              | 72.0                        | 74.0                            | 69.0                                 | 74.5                | 64.5      | 51.0                           |
| Torque            |                             |                                 |                                      | Current (A)         |           |                                |
| Full Load (lb-ft) | Locked Rotor (% FLT)        | Pull Up (% FLT)                 | Break Down (% FLT)                   | No Load             | Full Load | Locked Rotor                   |
| 1.01              | 235                         | 225                             | 330                                  | 0.8 / 0.4           | 1.1 / 0.6 | 7 / 4                          |
| NEMA KVA Code     | Inertia (WR <sup>2</sup> )  |                                 |                                      | Safe Stall Time (s) |           | Noise Level Sound Press. dB(A) |
|                   | Rotor (lb-ft <sup>2</sup> ) | NEMA Load (lb-ft <sup>2</sup> ) | Max. Allowable (lb-ft <sup>2</sup> ) | Cold                | Hot       |                                |
| K                 | 0.033                       | 3.2                             | 30.214                               | 96                  | 67        | 53.5                           |

#### VFD Duty Information

| Speed Range     |                 |                | VFD     |              | S.F.     |
|-----------------|-----------------|----------------|---------|--------------|----------|
| Constant Torque | Variable Torque | Constant Power | Carrier | Type         |          |
| 6-60Hz          | 3-60Hz          | 60-120Hz       | ≤ 5 kHz | VPWM or CPWM | 1.0 Only |

#### Additional Information

| Bearings |        | Approx. Weight |
|----------|--------|----------------|
| DE       | NDE    | lbs            |
| 6204ZZ   | 6203ZZ | 22             |

#### Hazardous Locations Information

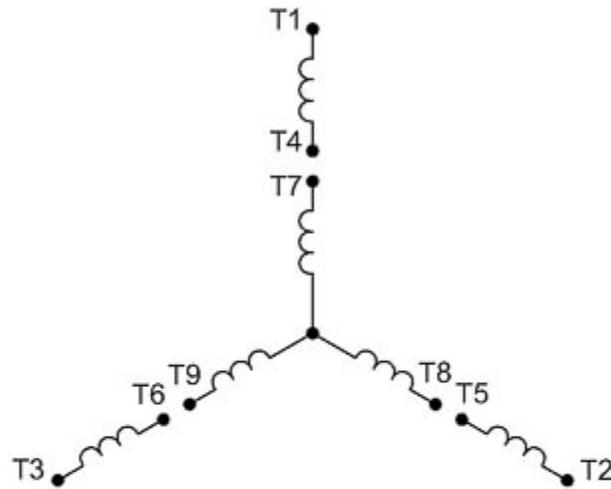
|                            |       |
|----------------------------|-------|
| N/A                        |       |
| 0                          |       |
| 0                          |       |
| Temp Code (Sinewave / VFD) | 0 / 0 |

**Nameplate Drawing**

# Rolled Steel TEFC

|              |                 |                |          |                |      |
|--------------|-----------------|----------------|----------|----------------|------|
| TYPE         | AEGHPE          | CAT. NO.       | RF0/34C  |                |      |
| OUTPUT       | 0.33 HP 0.25 kW | FRAME          | 56C      | TEFC           |      |
| R.P.M.       | 1735            | POLE           | 4        | INS.           | F    |
| VOLTS        | 230 / 460       | PHASE          | 3        | Hz             | 60   |
| AMPS         | 1.1 / 0.6       | CODE           | K        | S.F.           | 1.15 |
| AMBIENT      | 40 °C           | NOM. EFF. 75.5 |          | MIN. EFF. 72.0 |      |
| BEARINGS     | 6204ZZ / 6203ZZ |                |          | RATING Cont.   |      |
| SER. NO.     | TBD             | DESIGN         | B        | WT. 22 LBS     |      |
| PWM VFD DUTY | VT              | CT             | CP       | S.F.           |      |
|              | 3-60Hz          | 6-60Hz         | 60-120Hz | 1.0 Only       |      |

**Connection Diagram**



| 9 LEAD DUAL VOLTAGE WYE |       |     |     |     |             |
|-------------------------|-------|-----|-----|-----|-------------|
| VOLTAGE                 | CONN. | L1  | L2  | L3  | JOIN        |
| HIGH                    | WYE   | 1   | 2   | 3   | 4&7,5&8,6&9 |
| LOW                     | 2 WYE | 1,7 | 2,8 | 3,9 | 4&5&6       |

WD\_9Y