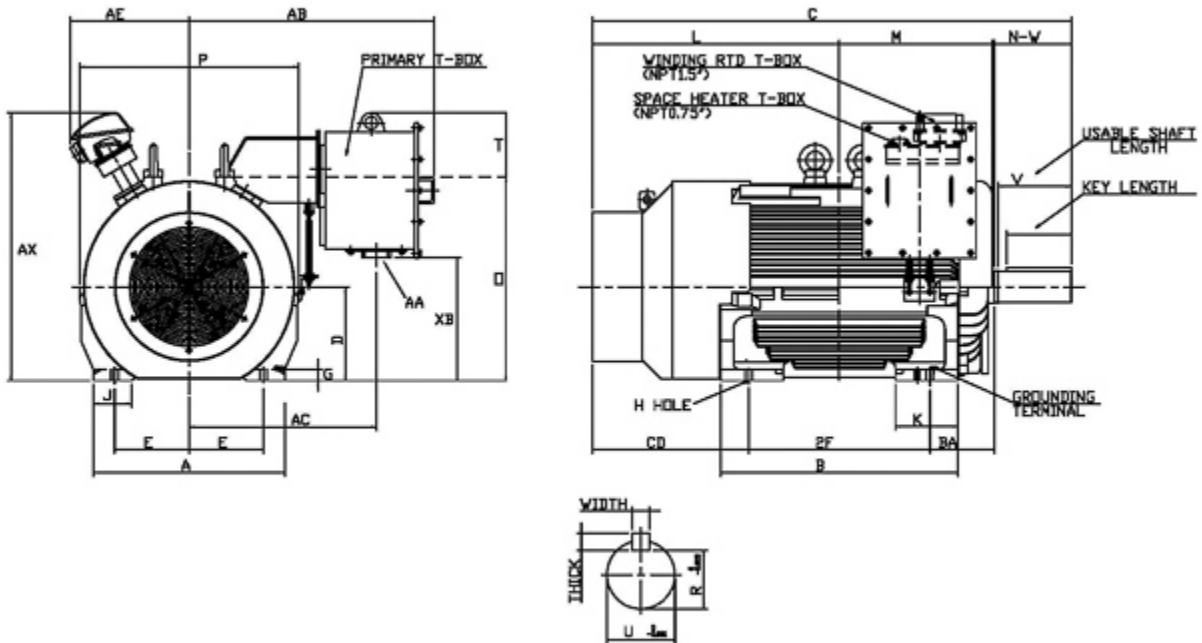


### Dimensional Drawing

|           |       |     |      |     |            |         |    |      |
|-----------|-------|-----|------|-----|------------|---------|----|------|
| Catalogue | Model | HP  | Pole | kW  | Rating     | Voltage | Hz | RPM  |
| PDH70045  | AEHE  | 700 | 4    | 522 | Continuous | 575 V   | 60 | 1800 |



| Frame Size       | Mounting |       |          |         |                    | A           | B          | C     | CD              | D          |         |
|------------------|----------|-------|----------|---------|--------------------|-------------|------------|-------|-----------------|------------|---------|
|                  | E        | 2F    | 2F2      | H       | BA                 |             |            |       |                 |            |         |
| 5810B            | 11.5     | 36    |          | 1.13    | 10                 | 29.55       | 44.1       | 81.81 | 23.93           | 14.5       |         |
| G                | J        | K     | L        | M       | O                  | P           | T          | Key   |                 |            | Keyseat |
| 1.7              | 5.9      | 9.65  | 41.93    | 27.2    | 31.45              | 33.85       | 9.45       | Width | Thick           | Length     | R       |
|                  |          |       |          |         |                    |             |            | 1.25  | 1.25            | 10         | 4.169   |
| Terminal Housing |          |       |          | Aux Box |                    | C/D Flange  |            |       |                 |            |         |
| AA               | AB       | AC    | XB       | AE      | AX                 | BB          | AH         | AK    | BD              | AJ         | BF      |
| 2x 3 NPT         | 30.5     | 24.4  | 21.1     | 18.34   | 41.39              |             |            |       |                 |            |         |
| Shaft Extension  |          |       | Bearings |         | Approx. Weight Lbs | SPL dBA/3ft | Ins. Class | S.F.  | Drive Method    | Dimensions |         |
| N-W              | U        | V     | DE       | NDE     |                    |             |            |       |                 |            |         |
| 11.88            | 4.875    | 11.38 | 6326     | 6322    | 6822               | 83          | F          | 1.15  | Direct Coupling | Inches     |         |

### Technical Data Sheet

Motor Type: AEHE

Catalogue No: PDH70045

#### Nameplate Information

|           |            |                |             |             |              |                |
|-----------|------------|----------------|-------------|-------------|--------------|----------------|
| HP        | Pole       | RPM            | Frame       | Voltage     | Hz           | Phase          |
| 700       | 4          | 1785           | 5810B       | 575         | 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 | <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.                        |                                 |                                      |                     |           |                                |
| 95.6              | 94.8                        | 95.3                            | 94.0                                 | 90.0                | 89.0      | 84.0                           |
| Torque            |                             |                                 |                                      | Current (A)         |           |                                |
| Full Load (lb-ft) | Locked Rotor (% FLT)        | Pull Up (% FLT)                 | Break Down (% FLT)                   | No Load             | Full Load | Locked Rotor                   |
| 2058.82           | 90                          | 90                              | 200                                  | 99.2                | 609.4     | 4400                           |
| 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       |                                |
| 0                 | 486.000                     | 2514.0                          | 3771.0                               | 25                  | 19        | 83                             |

#### VFD Duty Information

| Speed Range     |                 |                | VFD     |              | S.F. |
|-----------------|-----------------|----------------|---------|--------------|------|
| Constant Torque | Variable Torque | Constant Power | Carrier | Type         |      |
| 20-60Hz         | 3-60Hz          | 60-60Hz        | ≤ 5 kHz | VPWM or CPWM |      |

#### Additional Information

| Bearings |      | Approx. Weight |
|----------|------|----------------|
| DE       | NDE  | lbs            |
| 6326     | 6322 | 6822           |

#### Hazardous Locations Information

|  |
|--|
| N/A  |
| N/A  |
| N/A  |
| Temp Code (Sinewave / VFD)   T3 (1.0 SF) / T2B |