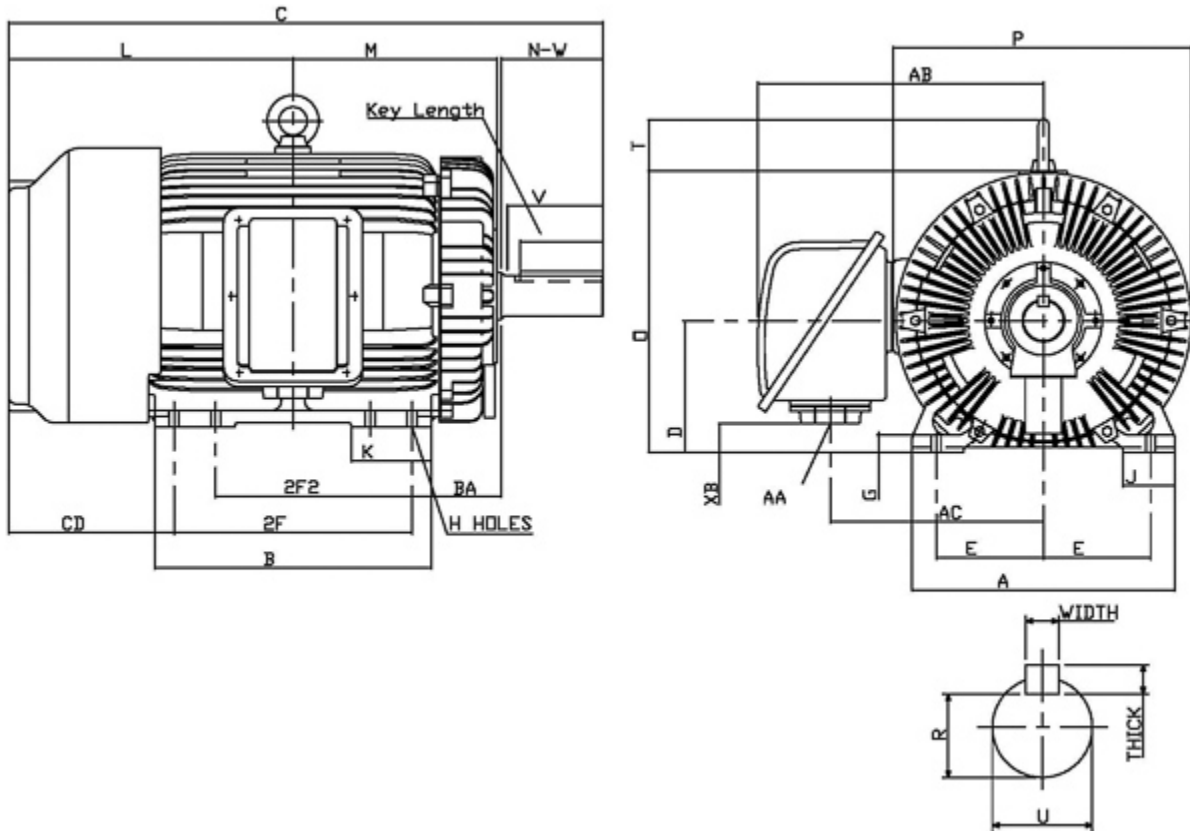


Dimensional Drawing

| Catalogue | Model | HP | Pole | kW | Rating | Voltage | Hz | RPM |
|-----------|--------|-----|------|----|------------|---------|----|-----|
| PDH10085R | AEHH8N | 100 | 8 | 75 | Continuous | 575 V | 60 | 900 |



| Frame Size | Mounting | | | | | A | B | C | CD | D | |
|------------------|----------|------|----------|------|-----------------------|----------------|---------------|-------|---------------------------------|------------|--------------|
| | E | 2F | 2F2 | H | BA | | | | | | |
| 445T | 9 | 16.5 | 14.5 | 0.81 | 7.5 | 22.05 | 19.5 | 46.4 | 13.9 | 11 | |
| G | J | K | L | M | O | P | T | Key | | | Keyseat R |
| | | | | | | | | Width | Thick | Length | |
| 1.4 | 4.35 | 5.1 | 22.15 | 15.4 | 23.55 | 24.75 | 4.35 | 0.875 | 0.875 | 6.91 | 2.88 |
| Terminal Housing | | | Aux Box | | | C/D Flange | | | | | |
| AA | AB | AC | XB | AE | AX | BB | AH | AK | BD | AJ | BF |
| 3 NPT | 24 | 17.9 | 2.4 | | | | | | | | |
| Shaft Extension | | | Bearings | | Approx. Weight Lbs | SPL dBA/3ft | Ins. Class | S.F. | Drive Method | Dimensions | |
| N-W | U | V | DE | NDE | | | | | | | |
| 8.5 | 3.375 | 8 | NU318 | 6316 | 1815 | 78 | F | 1.15 | Direct Coupling / Belt Drive | Inches | |

Technical Data Sheet

Motor Type: AEHH8N

Catalogue No: PDH10085R

Nameplate Information

| | | | | | | |
|-----------|------------|----------------|-------------|-------------|--------------|----------------|
| HP | Pole | RPM | Frame | Voltage | Hz | Phase |
| 100 | 8 | 885 | 445T | 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. | | | | | |
| 93.0 | 91.7 | 92.4 | 91.0 | 79.0 | 76.5 | 68.0 |
| Torque | | | | Current (A) | | |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | No Load | Full Load | Locked Rotor |
| 593.00 | 150 | 125 | 210 | 33.4 | 102.0 | 580 |
| NEMA KVA Code | Inertia (WR ²) | | | Safe Stall Time (s) | | Noise Level Sound Press. dB(A) |
| | Rotor (lb-ft ²) | NEMA Load (lb-ft ²) | Max. Allowable (lb-ft ²) | Cold | Hot | |
| G | 72.800 | 2372.0 | 4744.0 | 23 | 17 | 78 |

VFD Duty Information

| Speed Range | | | VFD | | S.F. |
|-----------------|-----------------|----------------|---------|--------------|------|
| Constant Torque | Variable Torque | Constant Power | Carrier | Type | |
| 12-60Hz | 3-60Hz | 60-90Hz | ≤ 5 kHz | VPWM or CPWM | |

Additional Information

| Bearings | | Approx. Weight |
|----------|------|----------------|
| DE | NDE | lbs |
| NU318 | 6316 | 1815 |

Hazardous Locations Information

| CSA Certified | |
|--|---------|
| Class I, Div 2, Groups B, C & D Class I, Zone 2, Groups IIB+H2, IIB & IIA | |
| Temp Code (Sinewave / VFD) | T3 / T3 |