

### Technical Data Sheet

Motor Type: AEHHXF

Catalogue No: XH0106C

#### Nameplate Information

|           |            |                |             |             |              |                |
|-----------|------------|----------------|-------------|-------------|--------------|----------------|
| HP        | Pole       | RPM            | Frame       | Voltage     | Hz           | Phase          |
| 10        | 6          | 1170           | 256TC       | 230 / 460   | 60           | 3              |
| Enclosure | Ins. Class | Service Factor | Time Rating | NEMA Design | Rated Amb.   | Rated Altitude |
| TEXP      | F          | 1.15           | Continuous  | C           | -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.                        |                                 |                                      |                     |             |                                |
| 91.0              | 89.5                        | 92.0                            | 91.0                                 | 81.5                | 76.5        | 65.0                           |
| Torque            |                             |                                 |                                      | Current (A)         |             |                                |
| Full Load (lb-ft) | Locked Rotor (% FLT)        | Pull Up (% FLT)                 | Break Down (% FLT)                   | No Load             | Full Load   | Locked Rotor                   |
| 45                | 260                         | 210                             | 280                                  | 11.1 / 5.6          | 25.3 / 12.6 | 162 / 81                       |
| 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         |                                |
| H                 | 2.872                       | 137                             | 334                                  | 26                  | 18          | 57                             |

#### VFD Duty Information

| Speed Range     |                 |                | VFD     |              | S.F.     |
|-----------------|-----------------|----------------|---------|--------------|----------|
| Constant Torque | Variable Torque | Constant Power | Carrier | Type         |          |
| 6-60Hz          | 3-60Hz          | 60-90Hz        | ≤ 5 kHz | VPWM or CPWM | 1.0 Only |

#### Additional Information

| Bearings |        | Approx. Weight |
|----------|--------|----------------|
| DE       | NDE    | lbs            |
| 6309ZZ   | 6307ZZ | 376            |

#### Hazardous Locations Information

| CSA/UL Certified  |           |
|---|-----------|
| Class I, Div 1, Groups C & D; Class II, Div 1, Groups E, F & G<br>Class I, Zone 1, Groups IIB & IIA; Class II, Div 1, Groups E, F & G |           |
| Temp Code (Sinewave / VFD)  | T3B / T3B |