



MODEL: OPTIM[®] JM
TYPE: AEHH8N-JM



Effective 09-22-14
 Supercedes All Previous

APPLICATIONS

- Pumps

PRODUCT OVERVIEW

- 1-50HP
- 60Hz, 230V/460V (Usable on 208V), or 575V
- 3600, 1800 & 1200 RPM
- Totally Enclosed IP54 Design
- Horizontal F1 Mount
- NEMA Premium Efficiency

DESIGN FEATURES

- 1.15 S.F. Sine Wave Power; 1.0 S.F. VFD Power
- Class B Temperature Rise
- Continuous Duty
- 40°C Ambient
- Class F Insulation
- Max Elevation 3300ft
- NEMA Design B or C

MECHANICAL FEATURES

- Oversized, Double Shielded Vacuum Degassed Ball Bearings Frames 140JM(2,4&6Pole)-280JM(4&6Pole) and Open Bearings with Regreaseable Provisions Frames 280JM(2Pole), 320JM
- Polyrex EM Grease in all Regreaseable Bearings, Multemp SRL Grease in Sealed Bearings
- Dynamically Balanced Die-Cast Aluminum Rotor
- Cast-Iron Frame and End Brackets
- Cast-Iron Fan Cover and Terminal Box
- Non-Sparking Plastic Fan
- Number of Leads 230/460V: 9 Leads 1-5HP; 12 Leads 7.5 and Larger; 575V: 3 Leads
- Solderless Lug Terminals on All Leads
- Grounding Terminal Inside Main Terminal Box
- Interchangeable F1 and F2 mounting
- Paint System: Phenolic Rust Proof Base with Lacquer Top Coat
- Stainless Steel Nameplate
- Rubber Flinger on DE Frames 140JM(2,4&6Pole)-280JM(4&6Pole); Steel Flinger on Both Ends 280JM(2Pole), 320JM
- Phenolic Alkyd Resin Varnish
- *HPE™ High Pulse Endurance Spike Resistant Wire
- JM Pump Shaft

OTHER FEATURES

- CSA Certified for Class I, Division II, Groups B, C and D and Class I, Zone 2, Groups IIB+H2, IIB and IIA
- *Inverter Duty Speed Range 10:1 CT and 20:1 VT
- *Meets NEMA MG1 Part 31.4.4.2

* Precautions should be taken to eliminate or reduce voltage spikes and shaft currents that may be imposed on the motor by the VFD as stated per NEMA MG1, Part 31.4.4.