



**MODEL:** OPTIM<sup>®</sup> ODP

**TYPE:** ASHH

Effective 05-01-18  
Supercedes All Previous

### APPLICATIONS

- Fans & Blowers
- Compressors
- Pumps

### PRODUCT OVERVIEW

- 1-500HP
- 60Hz, 230V/460V, 460V or 575V
- 3600, 1800 & 1200 RPM
- Open Drip Proof IP22 Design
- Horizontal F1 Mount
- NEMA Premium Efficiency (250-500HP)

### DESIGN FEATURES

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

### MECHANICAL FEATURES

- Shielded Bearings Frames 140T-280T and Open Bearings with Regreaseable Provisions Frames 280TS, 320T and Larger
- Polyrex EM Grease in all Regreaseable Bearings, Multemp SRL Grease in Shielded Bearings
- Aluminum Rotor
- Cast-Iron Frame and End Brackets
- Rolled Steel Conduit Box up to 400T Frames; Fabricated Steel Conduit Box 440T Frames and Larger
- Number of Leads 230/460V: 9 Leads 1-5HP; 12 Leads 7.5-125HP; 6 Leads 150 and Above
- Number of Leads 575V: 3 Leads up to 449T; 6 Leads 5000 Frames and Larger
- Solderless Lug Terminals on All Leads
- Grounding Terminal Inside Main Terminal Box
- Interchangeable F1 and F2 mounting up to 449T
- Paint System: Phenolic Rust Proof Base with Lacquer Top Coat
- Stainless Steel Nameplate
- Usable on 208V Sinusoidal Power Only
- Rubber Flinger on DE up to 280T; Steel Flinger on DE 280TS and Larger
- \*HPE™ High Pulse Endurance Spike Resistant Wire
- Phenolic Alkyd Resin Varnish 140T to 400T Frames; 2 Dips Phenolic Alkyd Resin Varnish and 1 Coat Spray Enamel 440T Frames and Larger
- Winding RTD's, Space Heaters and Provisions for Bearing RTD's Standard 5000 Frames and Larger

### OTHER FEATURES

- CSA Certified, UL Recognized and CE Marked
- UL Listed (UL 1004-5) for Fire Pump Applications (1-400HP)
- CSA Energy Efficiency Verification (EEV)
- \*Meets NEMA MG1 Part 31.4.4.2
- \*Speed Ranges up to 10:1 CT, and 20:1 VT. Refer to data sheet for rating specific turn down ratios

\* 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.