

FEATURES

NEMA

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MODEL: OPTIM® TEFC **TYPE:** AEHH8N, AEHE

Effective 05-01-18 Supercedes All Previous

APPLICATIONS

• Fans & Blowers

Crushers

Mixers

Pumps

Compressor

Conveyors

PRODUCT OVERVIEW

• 1-800HP

Totally Enclosed Fan Cooled IP54 Design, IP55 for 5000 Frames and Larger

• 60Hz, 230/460V, 460V or 575V

• Horizontal F1 Mount

· 3600, 1800, 1200 & 900 RPM

· NEMA Premium Efficiency

DESIGN FEATURES

• 1.15 S.F. Sine Wave Power; 1.0 S.F. VFD Power

· Class F Insulation

· Max Elevation 3300ft

· Continuous Duty

· NEMA Design B or C

· 40°C Ambient

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 up to 5000 Frames; Copper/Copper Alloy 5800 and Larger
- Cast-Iron Frame and End Brackets
- Cast-Iron Conduit Box up to 449T Frames; Fabricated Steel Conduit Box 5000 Frames and Larger
- Non-Sparking Plastic Fan up to 449T 4,6 & 8 Pole Motors; Bronze Fan 440TS 2 Pole Motors; Aluminum Fan 5000 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, Additional Grounding Terminal on Frame for 5000 Frames and Larger
- Interchangeable F1 and F2 mounting up to 449T
- Dual Drilled Feet for Longer Frames (i.e. 145T also Drilled for 143T) 449T and Below
- Paint System: Phenolic Rust Proof Base with Lacquer Top Coat
- Insulated NDE Bearing Standard for 600HP and Larger (2 Pole Motors Only)
- Rubber Flinger on DE up to 280T; Steel Flinger on Both Ends 280TS and Larger
- *HPE™ High Pulse Endurance Spike Resistant Wire
- 2 Dips Phenolic Alkyd Resin Varnish 140T-440T, 2 Dips Epoxy Resin 5000 Frames and Larger; Spray Enamel Top Coat on all Frames
- Bi-Directional Rotation Except 3600RPM Motors 5000 Frames and Larger Which are CW From NDE
- Winding RTD's, Space Heaters and Provisions for Bearing RTD's Standard 5000 Frames and Larger

OTHER FEATURES

- CSA Certified for Class I, Division 2, Groups B, C & D (Class I, Zone 2, Groups IIB+H2, IIB and IIA)
- CSA Certified Class II, Division 2 (Class II, Zone 22) available for 440 Frames and larger upon request
- *Speed Ranges up to 10:1 CT, and 20:1 VT. Refer to data sheet for rating specific turn down ratios
- *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.