



**MODEL:** ADVANTAGE PLUS IEEE 841  
**TYPE:** AEHH8B



Effective 02-09-23  
Supercedes All Previous

### APPLICATIONS

- Fans & Blowers
- Compressors
- Conveyors
- Pumps
- Mixers
- Crushers
- Any Severe Duty / Petro-Chemical / Pulp & Paper Applications

### PRODUCT OVERVIEW

- 1-500 HP
- Horizontal F1 Mount
- 3600, 1800, 1200 & 900 RPM
- 60Hz, 460V or 575V
- NEMA Premium Efficiency
- Totally Enclosed Fan Cooled IP56 Design

### DESIGN FEATURES

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

### MECHANICAL FEATURES

- C3 Clearance Open Bearings with Regreaseable Provisions
- Polyrex EM Grease
- Aluminum Rotor up to 5000 Frames; Copper/Copper Alloy 5800 and Larger
- Routine Test Report Shipped with Motor
- 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 and 5000 Frames and Larger
- Number of Leads 460V/575V: 3 Leads; Solderless Lug Terminals on All Leads
- Grounding Terminal Inside Main Terminal Box and Provisions for Grounding Terminal on Motor Frame
- Interchangeable F1 and F2 mounting up to 449T
- Dual Drilled Feet for Longer Frames (i.e. 145T also Drilled for 143T) 449T and Below except 449TX/TSX
- Paint System: Zinc Chromate Epoxy Primer, Phenolic Rust Proof Base with Lacquer Top Coat
- Stainless Steel Hardware, Breather Drains and Nameplate
- Inpro/Seal on DE and NDE
- \*HPE™ High Pulse Endurance Spike Resistant Wire
- 2 Dips Phenolic Alkyd Resin Varnish with Moisture Resistant Varnish
- Bi-Directional Rotation Except 3600RPM Motors 5000 Frames and Larger; and 300 HP 3600RPM, Which are CCW 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 or Exceeds \*NEMA MG1 Part 31.4.4.2; IEEE 45 Marine Duty 1 – 125HP; IEEE Std 841™-2009

\* 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.