

## JEC-HTM1500D New AC Drilling Motor

The Joliet Horizontal AC Drilling Motor delivers a continuous 1500HP rating for mud pump and rotary table applications and boasts an impressive intermittent rating of 2250HP for drawworks duty. The continuous rating is at 600/690 VAC, 1350 Amperes, 45.6 Hertz, 900/1800 RPM.

### Features:

- Form Wound 6-Pole Stator.
- Copper Alloy Rotor Bars and End Ring.
- Class H Insulation.
- Inverter Duty.
- 4532 Alloy High-Strength Forged Steel "Oversized Shaft". Single Shaft Extension with Oilfield Hub.
- OPE Insulated Bearing.
- IP44 Enclosure.
- Pressurized connection box (IP56) mounted on left side of motor as viewed from non-drive end, with bolt-on cable connections and terminations for pressure sensor, thermostat, space heater, lockout switch and blower unit. Connection box can be specified on right side.
- Blower Assembly: 20HP, Explosion Proof, 3 Phase, 60 Hz., 460 Volts, Providing 3900 CFM at 16" Ventilation Air.
- (6) 100 Ohm Platinum RTD's.
- Pressure Sensor, Explosion Proof.
- Lockout Switch, Explosion Proof.
- Space Heater, 120 or 240 VAC, Explosion Proof.
- Stub Shaft/Encoder Mount Optional.
- Motor Enclosure: IP44
- Altitude Below 3,300 ft.
- Approx. Weight: 7,150 Lbs., 3,243 Kg.
- ISO 9001:2000 Quality Program.
- New Cushioned "Export Spec." Shipping Skid.
- Shrink-wrap w/Desiccant.
- 12/18 Month Warranty.

### Engineering Data:

- Motor Performance Curve – Ref. to ES No. YJ-09-001.
- Service Speed: Belt Drive: 0~2300 RPM (min-1) 2300~3000 RPM: short time drive). Optional 0~3000 RPM (Direct coupling drive. Continuous drive).
- Over speed: 3600 (min.-1).
- Dielectric Test: 4025 V (900\*2.25+2000,900 V is inverter input Voltage).
- Permissible Vibration: +/- 73.5m/S<sup>2</sup> (+/-7.5G).
- Noise (@ No-Load) Approx. 91 dB(A) at 1m from motor frame.
- Bearing Type: Gear Side: Roller Bearing, Opp. Gear Side: Roller Bearing.
- Direct Coupled or Belted application.
- Manufactured by Hitachi Corporation.

### Rating:

	<u>Continuous</u>	<u>Intermittent</u>
Output (HP):	1500	2250
Output (KW):	1118	1678
Voltage (V):	600/690	600/690
Current (A):	1350	2025
Speed (min.-1):	900	900
Frequency (Hz.):	45.6	46.2
Efficiency (%):	94.5	93.7
Power Factor (%):	86.4	85.1