World Motor®
Cast Iron, General Purpose, Totally Enclosed
Fan Cooled, Horizontal AC Motors

Specifications

- **Horsepower:** 1 – 300 HP
- **Speeds:** 3600, 1800, 1200 and 900 RPM
- **Design Voltages:** 230/460, 460, 575 Volts
- **Insulation:** Totally Enclosed Fan Cooled (TEFC)
- **Industry Standard:** NEMA or IEC

Product Overview

World Motor is a line of horizontal, cast iron, TEFC motors in 0.5 to 250 kW in both NEMA and IEC configurations. The World Motor family includes U.S. MOTORS® brand HOSTILE DUTY™, CORRO-DUTY®, 841 PLUS® and INVERTER DUTY™ motors.

This product line is built to withstand a variety of severe duty applications. These motors are rated Class B rise at 1.0 service factor and Class F rise at 1.15 service factor with full Class F or better insulating materials.

Product Line Overview

- Designed for severe environments
- External corrosion resistant mill and chemical duty paint
- Oxide primer coating on bracket and frame surfaces
- 0.08IPS peak vibration maximum, 0.05IPS for 841 PLUS
- Division 2 rating (Class I, Group A, B, C, D)
- Non-braided, no wicking leads with a compression type ground lug in the conduit box
- Re-greasable bearings with a standard of L-10 bearing life of 30,000 hours or more based on NEMA belting loads
- 100% solid polyester varnish on wound stator and rotor core
- Field convertible to F1 or F2 assembly position or top mount (F0/F3) assembly position
- Suitable for shaft up or shaft down mounting
- Stainless steel nameplate and hardware to allow for use in hostile and severe environments
- Conduit boxes are larger than NEMA standard, diagonally split and rotatable in 90 degree increments

[Images of motors]
**Product Line Overview**

**New Features:**
- True cast iron 140 frame now available (Previous offering was rolled steel or cast frame with bolt on base)
- 18.5" 449 through 300HP (previous offering was expensive Titan 449 based on 21" platform)
- Top mount conduit box mounting configuration

<table>
<thead>
<tr>
<th>Features</th>
<th>HOSTILE DUTY</th>
<th>CORRO-DUTY</th>
<th>841 PLUS</th>
<th>Inverter Duty</th>
<th>HOSTILE DUTY IEC</th>
<th>841 PLUS IEC</th>
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<tbody>
<tr>
<td>Drains</td>
<td>Plastic</td>
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<tr>
<td>Regreasable Bearings</td>
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<td>&quot;250 Frame and Above&quot;</td>
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<td>Bearing Caps</td>
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<td>Lug in C/Box</td>
<td>&quot;Lug in C/Box and External&quot;</td>
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<td>Inpro Seal</td>
<td>Slinger</td>
<td>V-Ring + Slinger</td>
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</table>

**Options and Accessories**

**Custom design options available:**
- Roller bearings
- Horizontal or vertical mounting
- C-Flange and D-Flange
- B5 and B14 IEC Flanges
- Special voltages
- High altitude or ambient
- Special shafts
- Shaft grounding
- Oil mist lubrication
- Thermal and Bearing (320 and above) protection
- Terminal Boards
- And more

**Stock Motors**
- 1 – 300 HP
- 2, 4, 6 pole designs
- 200, 230/460, 460 and 575 Volts
- NEMA 140 to 449 frames
- IEC 90 to 280 frames

**Custom Motors**
- 1 – 300 HP
- 2, 4, 6, 8 pole designs
- Special Voltage
- NEMA and IEC Frame Motors
- F1, F2, or F3/0 Mounting

† All marks shown within this document are properties of their respective owners.
For more information about the U.S. MOTORS brand, visit www.usmotors.com.