POWERTEC

Made in U.S.A.

High Performance Motors, Compact Design

Application Specific Permanent Magnet AC Motors (PMAC)

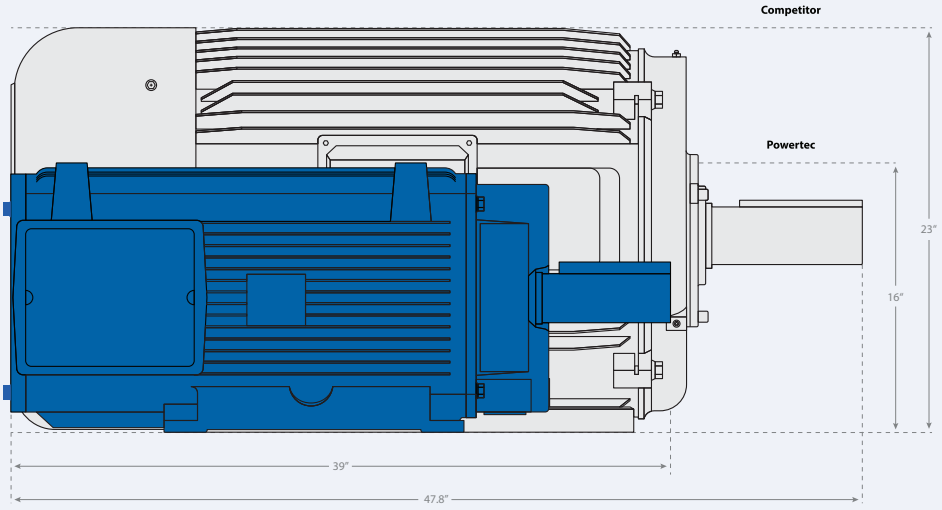
Powertec Performance Benefits Compared to Induction Motors

- Consistent Torque Across RPM Range
- Reduced Size
- Significantly Reduced Weight
- Optimized Performance
- Reliability in Challenging Environments

	Induction Motor 150 HP	Powertec Replacement Motor
Weight (lbs)	2260	950
Power Density	9.1 W/in^3	20.7 W/in^3
Locked Rotor Torque (ft/lb)	470	800
Frame (NEMA)	447T	328T
Frame Enclosure	TEFC	TEFC

SMALLER, LIGHTER, MORE TORQUE

Size Comparison of PMAC Motor vs. Standard Induction Motor



Scale Drawing for comparison only - actual design may vary depending on customer requirements.

BENEFITS

- **220% Higher** Power Density
- **190% Smaller** Frame Size
- **58% Less** Weight
- **Up to 9%** Higher Efficiency
- **Wider** RPM Range
- **Torque** From Zero Speed

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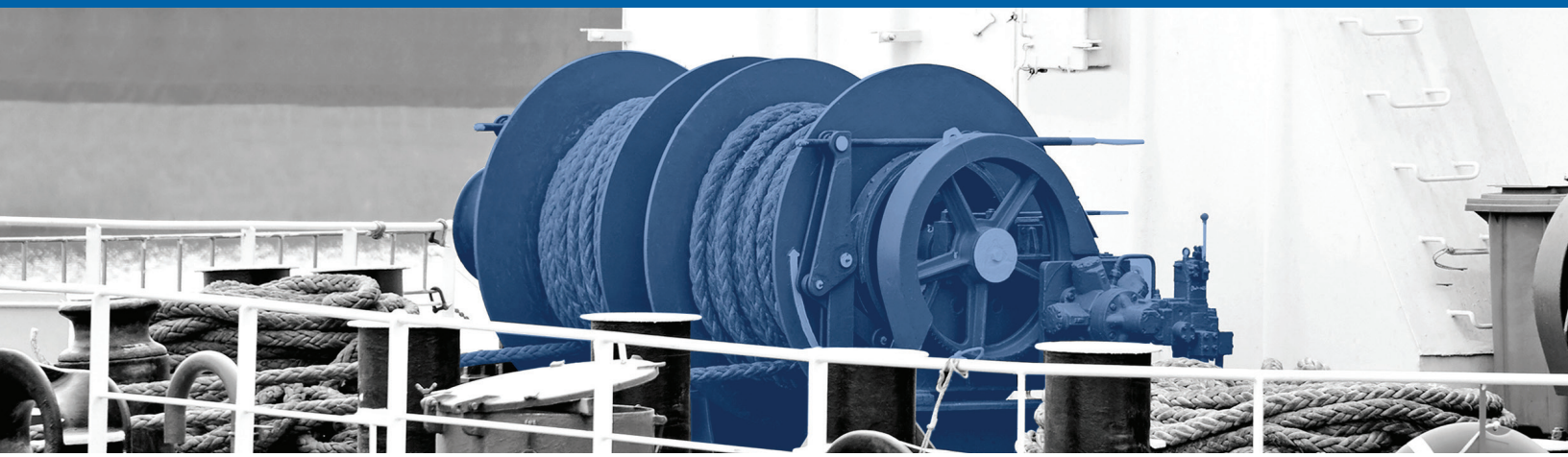
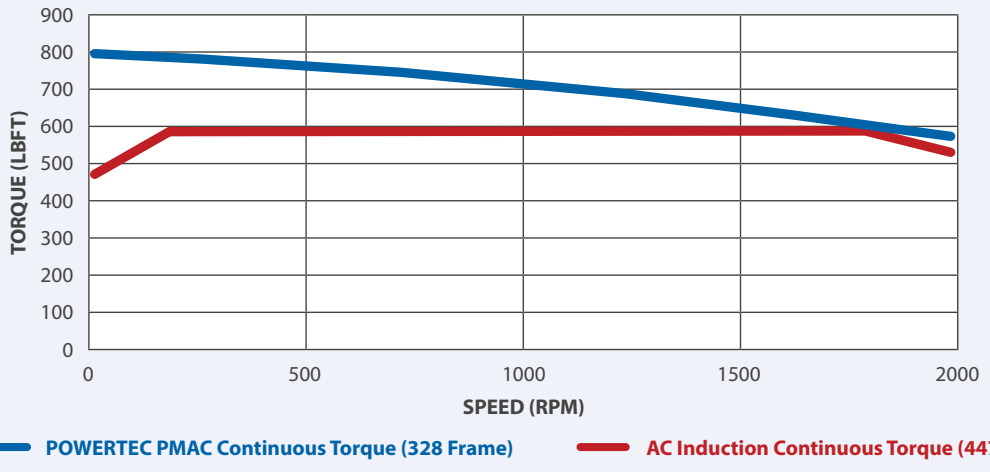


Common Marine Applications

• Anchor Windlass • Winches • Cargo Elevator • Mooring System



- Powertec Motors offer a significant **weight reduction of 1300+lbs (over half).**
- PMAC design can possibly **eliminate the gearbox** with increased range flexibility.
- Physical dimensions are **reduced by 190% in volume.**
- Efficiency is dramatically **improved by 3-9%** across the speed range.
- PMAC motors consistently deliver **higher torque density** and **better low-speed performance.**

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