

WL600 Inverter Rated AC Induction Motor



Ward Leonard

Power Solutions when the Stake are High.

The Ward Leonard WL600 inverter-rated AC induction motor is designed and manufactured specifically for use in oil patch applications. Based upon rugged motor designs currently found in the U.S. naval fleet, the WL600 is built under documented in-process quality procedures that ensure product reliability under the most severe operating conditions.

- High Partial Discharge (PD) Tolerance – Insulation system developed in conjunction with UK-based Alston TDE, centered on PD insulation performance resulting in a high PD tolerance for this motor.
- Greater peak torque – High density windings allow higher copper slot fill, delivering up to twice the peak torque as DC motors from zero rpm through rated rpm and also deliver full horsepower (kW) at just 1,160 rpm and constant horsepower (kW) thereafter.
- Excellent high temperature operation – High copper and iron contents provide greater thermal mass to withstand the high temperatures of continuous operation without diminishing component life.
- Reduced voltage drop – Minimum wire turns per phase group reduce voltage drop on the leading turn.
- Backwards compatible design – The WL600 model fits the NEMA standard footprint and shaft height and will fit most mechanical envelopes.
- Extended life – Our enhanced insulation system, based on insulation systems used in multiple U.S. naval motor applications, includes turn-to-turn and phase-to-phase protection as well as multiple vacuum pressure impregnation (VPI) epoxy treatments and varnish coatings.
- Low bearing wear – Insulated bearings prevent current transmission through the shaft and extend bearing life.
- Best quality – Extensive in-process testing and documentation throughout the manufacturing process ensure outstanding quality and superb reliability. Testing includes, but is not limited to, water immersion of finished motor, surge comparison of windings prior to and after the VPI process, and full-load testing.



Ordering Information

Order by catalog number.

Contact Information

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Continuous rating	600 hp (448 kW)	Efficiency	94%
Cooling	Forced air	Pole/RPM	6 / 1,160
Insulation class	H	FL Amps	650
Blower rating	10 hp / (7.5 kW)	Power Factor	0.73

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FL torque	2,718 lbs-ft (3,685 Nm)	Thermostats (qty)	(3)
Peak torque	4,900 lbs-ft (6,644 Nm)	Nominal voltage	575 V
Space heater	Yes	RTD's	(6) 100 ohms Platinum
ATEX Certified	EEXe	Rotor Construction	Die-Cast Al / Cu Bar
Motor weight total	2,630 lbs (1,193 kg)	Pressure sensor switch	Optional
Rotor weight	1,040 lbs (472 kg)	Nominal frequency	60 hz
WR ²	135 lbs-ft ² (5.7 kg-m ²)		