



Platinum[™]e

Innovation—Beyond Efficiency



Performance Matched Solutions[™]

It's the motor you weren't quite expecting.
It's more.



Platinum e™

Platinum e™. It delivers what other motors only promise.

Give it a casual glance and you might miss that you're looking at a technical wonder. Because in Platinum e™ LEESON delivers the best of everything that our customers have been seeking. Platinum e™ is a name that truly fits transitional motor design—one with value that continues to pay back year after year.

Platinum e™ series exceeds the efficiency of traditional AC induction motors.

- Energy efficiency over a wide speed range
- Desired output power in smaller frame sizes
- Variable speed operation in constant-torque and variable-torque applications
- Lower routine and long-term maintenance

A product line in fractional and integral frame sizes.

Platinum e™ permanent magnet technology provides energy savings across a broad range of fractional and integral horsepower motors. By reducing rotor losses, the patent-pending radial magnet design greatly improves motor efficiency and specific output power. What's more, the compact design of Platinum e™ motors enables easy integration with existing machine designs and processes to optimize system efficiency.

The people of LEESON
design and build Performance
Matched Solutions™ in the USA





Platinum e™ motors and variable frequency drives. The perfect combination.

Today, industry is responsible for more than 70% of electricity consumption. And that means motorized applications have tremendous potential for efficiency gains and corresponding savings. While a Platinum e™ motor must be matched with a variable frequency drive, the combination will help optimize mechanical systems to achieve maximum output and lowest total cost of operation.



Platinum e™ makes sense

- Pumps
- Fans/blowers
- HVAC
- Compressors
- Conveyors
- Extruders
- Presses
- Process applications
- Generators, and more

Guaranteed efficiency and torque over wide speed ranges

- High Speed with Low Power Density
- High Speed with High Power Density
- Low Speed/High Torque with Low Power Density
- Low Speed/High Torque with High Power Density

Save energy—at and below speed

Platinum e™ delivers more than torque. It also delivers a lower utility bill. Because throughout the speed range, Platinum e™ motors use less energy—far less than “high-efficiency” AC induction motors. And below rated speed? That’s where efficiency becomes even more significant, making Platinum e™ ideally suited for variable speed applications. That means return on investment typically occurs in 12 to 24 months.

Compact, modular, and smart

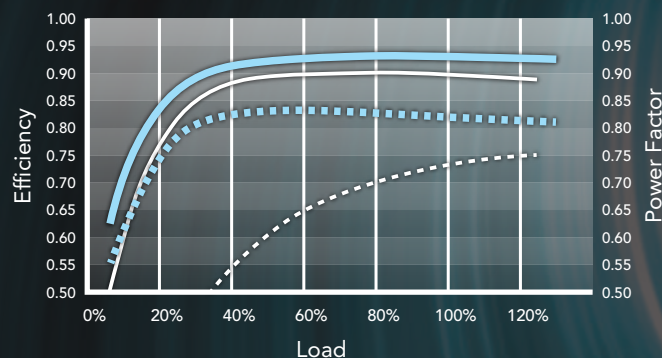
Significantly more compact and lighter than comparable AC induction motors, Platinum e™ solutions contribute to lower overall machine weight and smaller dimensions. This helps simplify installation, minimize lifting equipment needs, reduce transport costs, and more. A range of accessories ensures the modular Platinum e™ series is easy to retrofit where conventional motors are installed.

Cool operation reduces maintenance

Heat is a motor’s worst enemy. But with the permanent magnet design of Platinum e™ motors, rotor loss is minimized, which significantly reduces operating temperature. You’ll also see longer maintenance intervals as well, and increased service life of the entire drive system since power transmission devices such as pulleys, belts, and gear reducers have been simplified or removed.

Guaranteed efficiency and torque over wide speed ranges

Typical Integral Horsepower Inverter Motor Performance

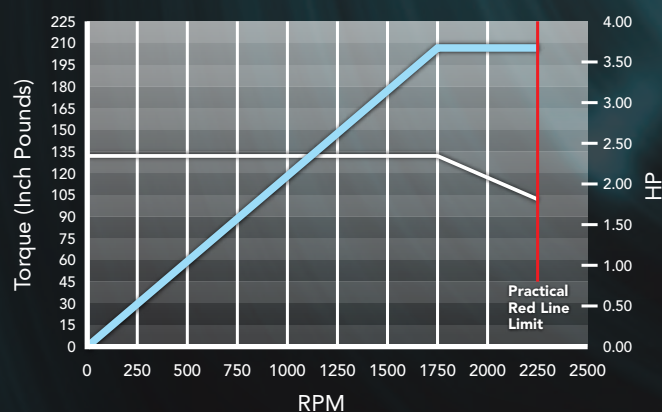


Conduit box includes a terminal block

IP-55 Protection against the elements

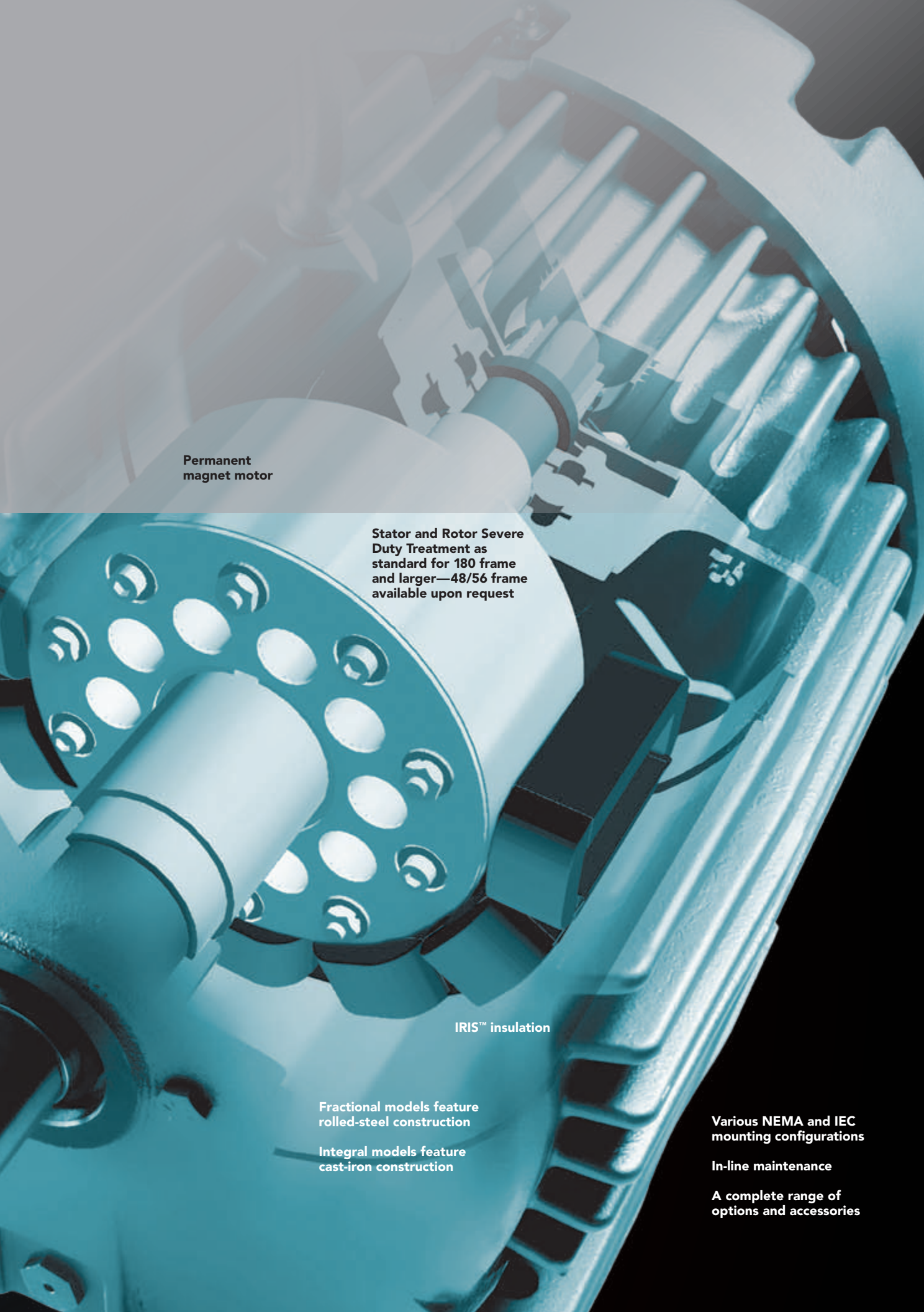
Bearings for 180 frames and larger may be greased

Typical Fractional Horsepower Inverter Motor Performance



ASSUMPTIONS:
10 HP @ 1800 RPM
150 Hz, 215 T Frame

ASSUMPTIONS:
3-phase
.82 Passive Power Factor Correction
<87% System Efficiency
200% Starting Torque
230 Volts 9.6 Amps
460 Volts 4.8 Amps



Permanent
magnet motor

Stator and Rotor Severe
Duty Treatment as
standard for 180 frame
and larger—48/56 frame
available upon request

IRIS™ insulation

Fractional models feature
rolled-steel construction

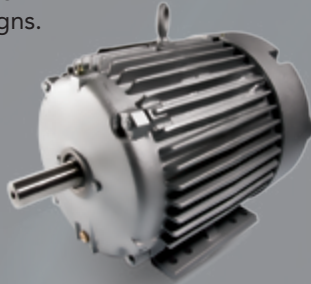
Integral models feature
cast-iron construction

Various NEMA and IEC
mounting configurations

In-line maintenance

A complete range of
options and accessories

Sustainability—a LEESON commitment
LEESON Electric is doing its part to reduce
carbon emissions through innovative designs.



Platinum e™



Performance Matched Solutions™

LEESON Electric
Corporate Office
2100 Washington Street
Grafton, WI 53024

P 262.377.8810
F 262.377.9025

Leeson.com

