

LEESON CANADA HAS THOUSANDS OF STOCK POWER TRANSMISSION SOLUTIONS



Strategically located LEESON Canada branches offer sales and application support for a wide range of power transmission needs.

LEESON's off-the-shelf product offering is one of the widest in the industry and includes nearly 4,000 stock motors, gearmotors, gear reducers and drives. All are built for industrial use and have numerous features making them easy to install in replacement applications.

MOTORS OF ALL TYPES

Stock motors include both AC and DC designs, from sub-fractional horsepower through hundreds of horsepower for general-use and specific-purpose applications. All popular enclosures and configurations are available, along with some not-so-easy-to-find items. Standard at no extra cost on all stock NEMA three phase motors (1 HP and larger) is LEESON's Inverter-Rated Insulation System (IRIS™), which provides an extra margin of protection from inverter-induced voltage spikes.

RELATED PRODUCTS AND SERVICES

As a wide-ranging source for electro-mechanical solutions, LEESON Canada offers contactors, switches, sensors and other industrial control products; clutches and brakes, sheaves, cables and connectors, and more. Services include design and assembly of application-specific motor control panels as well as our unique Custom PDQ program for delivering specially wound motors in small lots. Contact your nearest LEESON Canada branch for more information.

GE COMMERCIAL MOTORS By Regal-Beloit

LEESON is proud to offer a full line of Swim Pool, Jet Pump and Spa motors in this catalogue. Other GE Commercial Motors by Regal-Beloit such as HVAC, Direct Drive, Condenser Fan, Unit Heater, etc. are available from LEESON Canada through authorized distributors.



GE Commercial Motors

By Regal-Beloit

- LEESON Canada Branches and Warehouses
- ▲ LEESON Manufacturing Plants



Inverter-Duty Motors For Every Need!



General Purpose, Inverter-Rated EPACT Motors 1 to 200 HP Pages 13-22

All LEESON stock NEMA three-phase motors, 1 HP and larger, feature the IRIS™ insulation system, which provides superior protection against voltage spikes induced by variable frequency drives. Many ratings have been designated as EPACT motors, meaning that they have efficiencies that meet or exceed EPACT standards. Suitable for use with an inverter at speed ranges of 10:1 for variable torque and 10:1 for constant torque. With blower kit, and proper inverter setup, suitable for use up to 20:1 variable torque and 20:1 constant torque.



WATTSAYER® Premium Efficiency Motors 1/3 to 125 HP Pages 13-22

Premium efficiency motors with the IRIS™ insulation system for extra spike protection. These motors are designed for superior performance in PWM and vector-drive service. Efficiencies meet or exceed NEMA Premium efficiency requirements, most utility rebate programs, and have been independently verified to IEEE 112B standards. Meets requirements for NEMA MG-1, part 30. Suitable for use with an inverter at speed ranges of 10:1 for variable torque and 10:1 for constant torque. With blower kit, and proper inverter setup, suitable for use up to 20:1 variable torque and 20:1 constant torque. Also suitable for vector-duty (full rated torque at zero speed) with blower and encoder kits.



SPEEDMASTER® Extreme-Duty Inverter Motors 1 to 350 HP Call Factory

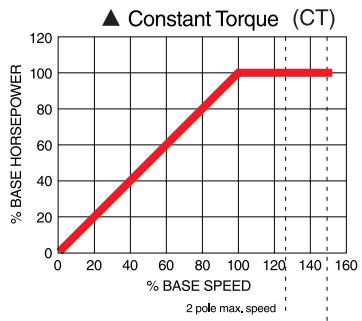
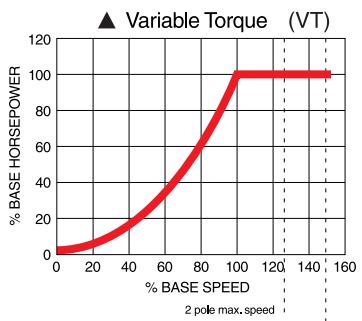
Specially designed for inverter applications, these motors have 2000:1 constant torque speed range with blower cooling and vector-input IRIS™ voltage spike protection. Cast iron frame, endplates and fan cover. Provisions for encoder mounting. Meets requirements for NEMA MG-1, part 30 and 31. For inverter-duty use up to 2000:1 variable torque and constant torque. Vector duty with the addition of an encoder kit.

Inverter-Duty Motor Speed Ranges*

Construction Type	NEMA Frame	Safe Hertz Range			Safe Hertz Range With Forced Ventilation Mod
		CT▲	VT▲	CHP:::	
General Purpose Inverter-Rated EPACT Motors					
Steel Frame,	TEFC 56-210T	6-60 Hz	6-60 Hz	to 90 Hz	Full torque at low speed with vector control
ODP	56-210T	6-60 Hz	20-60 Hz	to 90 Hz	
Cast Iron Frame, TEFC	180-440T	6-60 Hz	6-60 Hz	to 90 Hz	Full torque at low speed with vector control
Cast Iron Frame, ODP	180-440T	6-60 Hz	6-60 Hz	to 90 Hz	Full torque at low speed with vector control
WATTSAYER® Premium Efficiency Motors					
Steel Frame	56-180T	6-60 Hz	6-60 Hz	to 90 Hz	
	180-280T	6-60 Hz	6-60 Hz	to 90 Hz	0-90 with full torque at zero speed with vector control
Cast Iron Frame, TEFC					
	320-440T	6-60 Hz	6-60 Hz	to 90 Hz	0-90 with full torque at zero speed with vector control
Cast Iron Frame, ODP	180-280T	6-60 Hz	6-60 Hz	to 90 Hz	
	320-440T	6-60 Hz	6-60 Hz	to 90 Hz	
SPEEDMASTER® Extreme-Duty Inverter Motors					
TENV	143TC-256TC	0-60 Hz	0-60 Hz	0-120 Hz	
TEBC	284T-449T	0-60 Hz	0-60 Hz	0-90 Hz	

* General information is given because each application is unique with its own unique set of application characteristics. Successful motor/drive applications require proper setup and installation (in accordance with all applicable electrical codes and regulations) by personnel familiar with the installation, setup, and operation of adjustable speed drives. Proper adjustment of the adjustable speed drive, in accordance with the Installation and Operation manual that comes with it, must be performed to ensure that the motor/drive setup is complete and appropriate for the application. Failure to perform proper setup can lead to substandard performance and/or failure of system components.

** For constant Horsepower operation, the maximum speed for 2 pole (3600 RPM) motors is 75Hz, not 90Hz. Contact LEESON for application analysis if 90Hz is required.



Look Inside the LEESON 182-4T Frame Motor

Cooler running temperatures are achieved by using air guides on the endshield to straighten airflow over the frame for improved heat dissipation and longer insulation life.

Fan guard, fan and endshield work together to provide frame-hugging airflow for maximum cooling and over-load capacity. Vents in fan guard meet UL 1/4" articulated probe standard for safe operation.

Large capacitor housing (single phase) with large MFD capacitors, one molded gasket/joint and simplified wiring.

C face models feature bearing lock to withstand 1000+ lb axial loads. C face endshield designed to handle five times motor weight in overhung load.

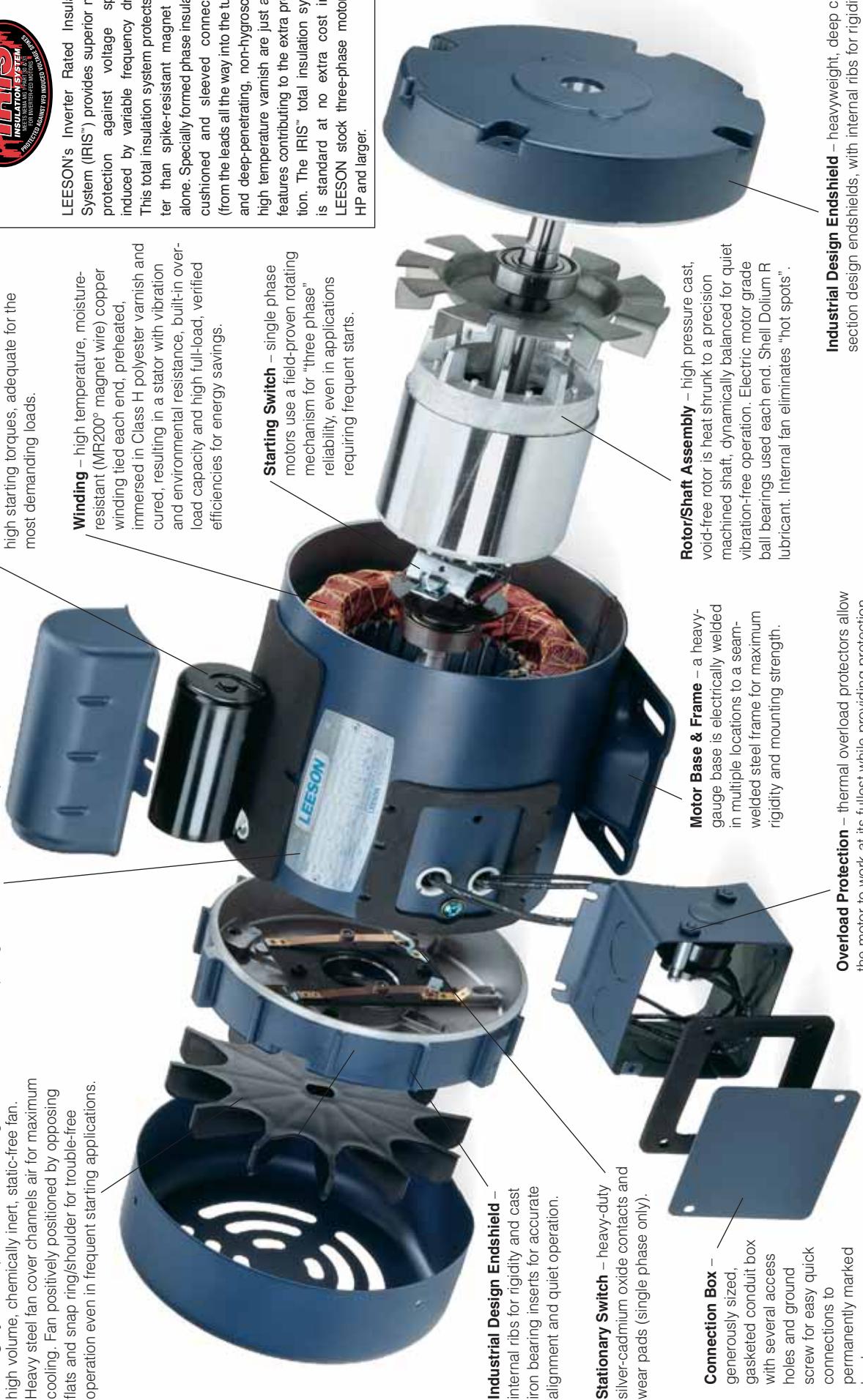


LEESON...Industrial Quality From the Inside Out

Data Plate

— "full face" metal nameplate has complete information including connection data, amperage and full load efficiency.

Cooling System — quiet, efficient cooling with high volume, chemically inert, static-free fan. Heavy steel fan cover channels air for maximum cooling. Fan positively positioned by opposing flats and snap ring/shoulder for trouble-free operation even in frequent starting applications.



Capacitor — molded-case starting capacitor in single phase motors assures high starting torques, adequate for the most demanding loads.

Winding — high temperature, moisture-resistant (MR200° magnet wire) copper winding tied each end, preheated, immersed in Class H polyester varnish and cured, resulting in a stator with vibration and environmental resistance, built-in over-load capacity and high full-load, verified efficiencies for energy savings.

LEESON's Inverter Rated Insulation System (IRIS™) provides superior motor protection against voltage spikes induced by variable frequency drives. This total insulation system protects better than spike-resistant magnet wire alone. Specially formed phase insulation, cushioned and sleeved connections (from the leads all the way into the turns), and deep-penetrating, non-hygroscopic, high temperature varnish are just a few features contributing to the extra protection. The IRIS™ total insulation system is standard at no extra cost in all LEESON stock three-phase motors, 1 HP and larger.

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