

ELECTRIC MOTORS, GEARMOTORS AND DRIVES

# LEESON



## We Have You Covered.

**STOCK PRODUCTS**  
QUICK REFERENCE GUIDE



A REGAL-BELOIT Company

# AC MOTORS



## General Purpose Motors

SINGLE PHASE

THREE PHASE

Rigid Base .....	1/6 thru 10 HP	1/6 thru 350 HP
C Face.....	1/4 thru 5 HP	1/4 thru 75 HP
Resilient Base.....	1/4 thru 2 HP	1/3 thru 3 HP
Premium Efficiency WATTSaver® ..	1/4 thru 2 HP	1/2 thru 125 HP



**Inverter-Duty Insulation System**  
Standard on all LEESON 3 phase  
NEMA frame motors 1 HP and larger

**WATTSaver**  
CEE Efficient

**NEMA**  
Premium



## Ag Motors

General Purpose Farm Duty.....	1/3 thru 10 HP	—
Fan Duty .....	1/4 thru 3 HP	3/4 thru 3 HP
Industry-AG.....	1/3 thru 2 HP	—
Special Application .....	1/4 thru 15HP	1 thru 15HP



## Brakemotors.....

1/3 thru 1 HP	1/3 thru 10HP
C Face Coupler Brakes.....	1/3 thru 2 HP
BRAKEKIT™ .....	3/4 thru 5 HP
(For field modification of TEFC motors to brakemotors)	

## Chemical Service Motors..

Epoxy-Coated, Steel Frame.....	—	1/2 thru 2 HP
Cast Iron, Adaptable for Chemical Service with Severe Duty Kit .....	—	3 thru 100 HP
Cast Iron, IEEE 841 .....	—	3 thru 100 HP
All-Stainless WASHGUARD®.....	—	1/2 thru 10 HP



## Compressor Duty Motors...1 thru 10 HP

1 thru 20 HP

## Explosion Proof Motors

Steel Frame .....	1/3 thru 2 HP	1/3 thru 5 HP
Cast Iron Frame.....	—	3 thru 250 HP



## Fan & Blower Motors

General Purpose .....	1/4 thru 2 HP	1/3 thru 3 HP
PSC Type .....	1/4 thru 1 HP	—
Two-Speed.....	1/4 thru 1 HP	1/2 thru 1½ HP
TEAO .....	3/4 thru 3 HP	3/4 thru 3 HP
HVAC Blower .....	—	1/3 thru 5 HP
Condenser Fan.....	—	1 thru 1½ HP
FHP Commercial Duty .....	1/4 thru 1/2 HP	—
Performa + .....	1/4 thru 1/2 HP	—



# AC MOTORS



SINGLE PHASE      THREE PHASE

## Food Processing Washdown-Duty Motors

WASHGUARD® White Epoxy Coated .....	1/3 thru 2 HP	1/4 thru 10 HP
WASHGUARD®II Paint Free .....	—	1/2 thru 2 HP
All Stainless WASHGUARD® .....	—	1/2 thru 2 HP

**IEC Metric Motors** ..... — .018 kW thru 45 kW

**Instant Reversing Motors** ..... 1/3 thru 3/4 HP —

**Poultry Motors** ..... 1/4 thru 3 HP 3/4 thru 3 HP

## Inverter-Duty Motors


WATSAVER® .....	—	1/2 thru 125 HP
SPEEDMASTER® .....	—	1 thru 350 HP

**Pressure Washer Motors** ..... 3/4 thru 5 HP —

## Pump Motors

Jet Pump .....	1/2 thru 3 HP	3/4 thru 3 HP
JM Type .....	1 thru 10 HP	1 thru 50 HP
JP Type .....	5 thru 10 HP	1½ thru 50 HP
Swimming Pool .....	1/2 thru 3 HP	—

## Special Power/Voltage Motors

50 Hz  .....	1/3 thru 5 HP	1/2 thru 150 HP
200-208 Volt .....	—	3/4 thru 10 HP
575 Volt .....	—	1/3 thru 150 HP

**Woodworking Motors** ..... 3/4 thru 4 HP —

**Two-Speed Motors** ..... — 1 thru 10 HP  
 Quick-turnaround multi-speed  
 and low-speed specials ..... — 1 thru 200 HP



# DC MOTORS



## SCR-Rated, 90 & 180 Volts, Permanent Magnet

Sub-FHP ..... 1/25 thru 1/4 HP  
 NEMA Frame ..... 1/4 thru 3 HP

## Low-Voltage, 12 & 24 Volts, Permanent Magnet

Sub-FHP ..... 1/20 thru 1/3 HP  
 NEMA Frame ..... 1/4 thru 1 HP

## Food Processing Washdown-Duty

WASHGUARD® SCR-Rated, NEMA Frame ..... 1/4 thru 1½ HP

## Explosion Proof

SCR-Rated, NEMA Frame ..... 1/3 thru 3/4 HP

## IEC Metric SCR-Rated & Low Voltage

B5 Mounting ..... 0.06 thru 0.25 kW  
 B14 Mounting ..... 0.06 thru 0.25 kW  
 Convertible B3, B5, B14 Mounting ..... 0.25 thru 2.2 kW

# ADJUSTABLE SPEED AC & DC DRIVES



Micro Series AC Inverters ..... 1/2 thru 60 HP

SM Plus Sub-Micro AC Inverters ..... 1/4 thru 25 HP

FHP Series AC Inverters ..... 1/4 thru 1 HP

DC SCR Controls ..... Sub-FHP thru 3 HP

DC Regenerative Controls ..... 1/4 thru 2 HP

DC Pulse Width Modulated Controls ..... Sub-FHP thru 1/4 HP

# GEAR PRODUCTS

## Worm Reducers & Gear+Motors™



- Premium cast iron worm reducers to 35 input HP
- Viton® seals, high-temperature synthetic oil standard

- Extensive range of mounting options and accessories
- Single or double reduction
- WASHGUARD® to 7 input HP
- All-Stainless WASHGUARD® selections to 9 HP
- Drop-in replacement for most competitive brands
- AC or DC Gear+Motors™ from stock
- Ratio multipliers to 13 input HP



- Aluminum housing designed for compactness and light weight
- Up to 7½ input HP

- Modular construction, wide array of mountings for maximum flexibility
- Single or double reduction
- Ideal OEM solution
- AC or DC Gear+Motors™ from stock

## Inline Reducers & Gearmotors

- Industrial-duty aluminum housings
- 1/4 thru 7½ input HP
- Two-stage ratios to 63:1
- Three-stage ratios to 278:1



- Modular base and flange mounts interchange with most other popular brands, including SEW, Nord, David Brown, Dodge, Brook Hansen and more
- AC or DC Gear+Motors™ from stock

## Sub-Fractional HP Gearmotors

AC Parallel Shaft . . . . .12 thru 1105 lb. in. output torque

AC Right-Angle . . . . .14 thru 113 lb. in. output torque

*AC Single Phase or Three Phase available*

DC Parallel Shaft . . . . .10 thru 1112 lb. in. output torque

DC Right-Angle . . . . .5 thru 135 lb. in. output torque

*DC SCR or Low Voltage available*

# CUSTOM MOTORS & GEARMOTORS



**LEESON is a leading designer and manufacturer** of application-specific AC and DC motors and gearmotors in sub-fractional, fractional and integral horsepower sizes. We offer a database of over 30,000 custom designs, experienced application and design engineering teams, and the unique collaborative environment of the LEESON Design Center to ensure the best, most cost-effective custom-motor solution.

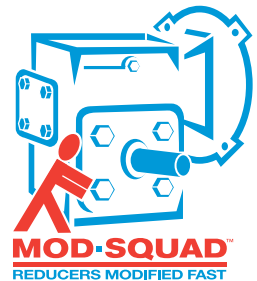
## MODIFIED PRODUCTS

**Quick-turnaround stock motor modifications** are available through the LEESON Motor Mod-Squad™. Adding cords or switches, changing mountings, extending leads and incorporating various severe-duty features are among the many standard modifications offered.



**For complete stock products information, visit our online technical database at [www.leeson.com/findaproduct](http://www.leeson.com/findaproduct).**

**Modified stock gear reducers** are offered on a quick-ship basis through the LEESON Gear Mod-Squad™. A wide array of mountings, shaft extensions and other changes are available for 600 Series IRONMAN™ reducers. In addition, modified stock Gear+Motor™ packages can be created, drawing on LEESON's extensive range of NEMA C face motors.



## LEESON ELECTRIC

GRAFTON, WISCONSIN 53024-0241 U.S.A.  
TEL (262)377-8810 FAX (262)377-9025 [www.leeson.com](http://www.leeson.com)

A REGAL-BELOIT Company

