

UNLEASH THE POWER OF REGAL

marathon[®]
Motors



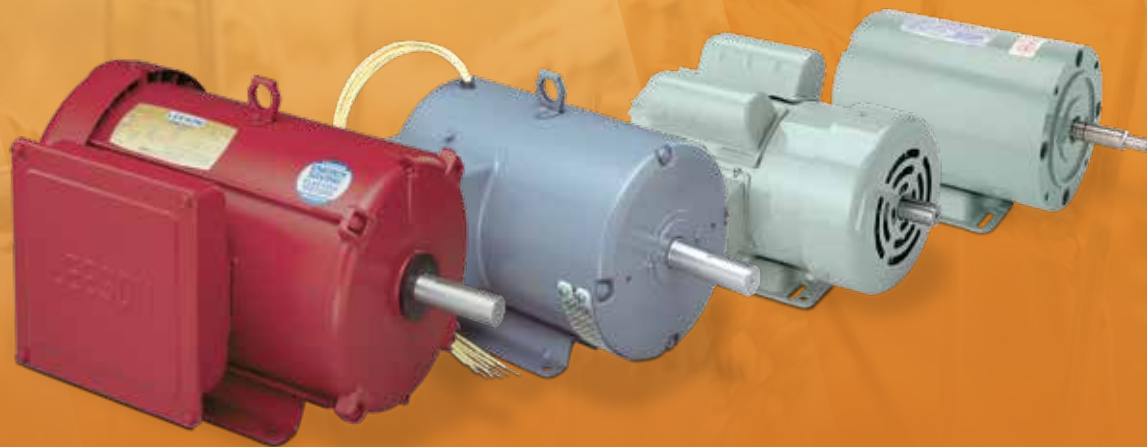
FARM DUTY MOTORS

BUILT FOR THE DEMANDING AGRICULTURAL INDUSTRY

REGAL[®]

DON'T LET A MOTOR DECIDE WHEN YOUR DAY ENDS.

Marathon®, LEESON® and Century® farm duty motors are designed for one thing—work. Specifically, to handle high-starting loads and severe-duty applications of the agricultural industry. We've listened to user feedback and engineered motor solutions that work just as you expect. This process led to the development of specialty OEM motor designs, stock replacement motors as well as new equipment solutions. Regal branded motors—just like you, they're not afraid of work.



TRUST OUR BRANDS AND AGRICULTURAL KNOWLEDGE

- Farming continues to evolve from a lifestyle into a business where operating efficiencies, equipment downtime and energy costs dictate the ROI and profitability of the agricultural industry.
- Repair and/or replacements must be done quickly on site. This helps restore critical operations, prevents unnecessary downtime and the adverse effects to livestock, crops, confinements and aquaculture.
- Simply stated, we have built tough products despite the adverse extremes of ambient temperatures and the harsh environments that our motors must operate in for the agriculture, aqua and mariculture industry for over 100 years.
- With stocked warehouses located throughout the U.S., we are ready with off-the-shelf solutions 24/7 to reduce your downtime.
- If a stock model is not exactly what you need, our Motor Modification Program utilizes a component system to configure custom NEMA®* frame motors—fast.

To turn your ideas into reality, contact your local sales office or visit regalbeloit.com.

UNLEASH THE POWER OF **REGAL.**





GENERAL PURPOSE MOTORS



FEATURES AND BENEFITS

- Double-sealed Ball Bearings—Long life in dusty and moist conditions
- EXXON®* Polyrex®* EM Grease -20°F to +350°F—Ideal for extreme temperatures
- Low Temperature Manual Overload Protector—Ensure proper motor protection in low temperatures
- Shaft Flinger—Helps prevent dirt and rain from damaging bearings
- Condensation Drains—Enable moisture or condensation draining



With our Marathon[®], LEESON[®] and Century[®] branded motors, we offer a broad line of general purpose farm duty motors to handle the heavy duty applications of the agricultural market. These motors are engineered with reliability for the hard-working people who simply cannot afford down-time in their demanding farming applications such as: compressors, feeders, fans, grain elevators, hay hoists, silo unloaders, barn cleaners and more.



**HIGH TORQUE – RIGID BASE
SINGLE-PHASE – TEFC**

- 1/3 –10 HP
- Manual overload protection
- Class F insulation
- Rubber boot over protector
- Shaft flinger
- C-Face motors
- Gasketed conduit box and capacitor cases



**EXTRA-HIGH TORQUE – RIGID
BASE – SINGLE-PHASE – TEFC**

- 5 –10 HP
- Produce up to 400% starting torque
- 230V
- Manual overload protection
- Drain hole
- Gasketed conduit box



**PREMIUM EFFICIENT – RIGID
BASE – SINGLE-PHASE**

- 1/3 –2 HP
- UP to 22% higher efficiency than standard Ag motors
- High starting torque
- Sealed bearings
- Manual overload protection
- Condensation drains
- Shaft flinger



**PREMIUM EFFICIENT – RIGID
BASE – THREE-PHASE**

- 1/2 –10 HP
- Meet or exceed NEMA Premium^{®*} efficiencies
- Normally closed, thermostat protected
- Double-sealed ball bearings
- C-Face kits available
- High starting torque



**COMPRESSOR – RIGID BASE
SINGLE-PHASE**

- 1/3 –10 HP
- High starting and breakdown torque
- Continuous duty
- Ball bearings
- Manual overload protection
- OEM special replacement models



**PRESSURE WASHER MOTORS
RIGID BASE – SINGLE-PHASE
TEFC**

- 1/3 –10 HP
- Manual overload protection
- Continuous duty
- High service factor



FAN AND BLOWER DUTY MOTORS



APPLICATION AND BENEFITS

- Aeration Fans—Installed terminal boards simplify wiring connections to motors on drive vane axial fans
- Centrifugal Fans—Premium efficient designs save energy and power consumption
- Permanent Magnet Ag Fans—Upgrade to direct drive fan and motor combination for improved efficiency and reduced future maintenance costs
- Belt Drive Ag Fans—High-torque designs ensure proper fan speed to keep air circulating through livestock houses



Fans play a crucial role in the agriculture industry, from providing climate controlled air for raising animals to providing forced air to dry crops. Our broad offering include heavy-duty insulation and protection systems that ensure lasting motor life. Designed as drop-in replacements for quick repair on your already strenuous days. Our motor designs are field-proven to hold up and won't let you down when the season heats up.



AERATION FAN MOTORS

- 1/2 –3 HP
- Single- and three-phase designs available
- TEAO designs—must be mounted in fan's airstream
- Terminal board connections on single-phase designs



CROP DRYER MOTORS

- 3 –15 HP
- Single- and three-phase designs available
- Overload protected
- Rodent screens provided
- Double-sealed ball bearings



CENTRIFUGAL FAN MOTORS

- 5 –30 HP
- Single and three phase designs
- ODP and TEFC models
- Heavy gauge steel frame and base



PEDESTAL FAN MOTORS

- 1/4 –1/2 HP
- Yoke mounted motor
- PSC designs
- Automatic reset thermal protector
- Drop-in replacement for most standard direct drive fan motors



PERMANENT MAGNET AG FAN MOTORS

- 1/2 –2 HP
- Up to IE5 efficiency when paired with a drive
- Low speed range to support direct drive fan applications with impellers ranging in size from 24-60"
- 6 ft. cord provided for mounting away from fan



BELT DRIVE AG FAN MOTORS

- 1/2 –2 HP
- High efficiency capacitor start/run designs
- TEAO designs
- Combination 56/140 frames stamped
- Automatic overload protected



POULTRY DUTY MOTORS



APPLICATION AND BENEFITS

- Hatchery and Incubator Fans—Resilient base and thru-bolt mounting platforms meet many application needs
- Poultry Fan Motors—Keep air circulating through poultry barns in exhaust or vent fans
- Feed Auger Drive Motors—Motor switches have over-speed protection and solid-state type switch designs to deliver long motor life
- Feather Picker Motors—Motors designed for the tough poultry feather picker machines featuring extra high breakdown torque



From egg laying, feed augers, to ventilation fans used in the poultry houses, motors and their efficiency greatly affect the poultry industry. Our broad offering of motors have you covered from the hatcheries, to baby chicks, and hot summer days in the hen house, the Regal® brands of motors are designed to keep air moving, feed flowing, and eggs warm so you can worry about the birds, not the motors.



FEED AUGER DRIVE MOTORS

- 1/3 –1 1/2 HP
- Single- and three-phase designs
- 50/60 Hz designs available
- Manual reset thermal protector on single phase models
- High starting torque



HATCHERY AND INCUBATOR FAN MOTORS

- 1/4-1/2 HP
- TEAO designs
- Automatic overload protected
- Double-sealed ball bearings



FEATHER PICKER MOTORS

- 2 –3 HP
- White epoxy and encapsulated stainless steel designs
- Extra high breakdown torques
- Conduit box mounted at 12 o'clock position
- Double sealed ball bearings



POULTRY FAN MOTORS

- 1/2 HP
- TEAO designs
- High starting torque
- Resilient or rigid base models
- Gasketed conduit box



DAIRY FARM MOTORS



APPLICATION AND BENEFITS

- Cow Cooler Motors—Fan motors designed to keep livestock cool during the summer heat
- Milk Transfer Pump Motors—Direct replacement for surge milk pumps
- Milk Tank Washer Motors—Washdown duty jet pump motors designed for milk tanker cleaning



Dairy farms are affected by rising energy costs and often the most costly type of agricultural operation. Our motors help fans provide proper ventilation in the dairy barns to maintain animal health and productivity, milk quality, and a comfortable atmosphere for the employees. Keep the milking process flowing all day with motors used in the vacuum pumps, milk transfer motors, to milk cooling systems. Our broad offering of motors help to ensure your dairy operations are up and running daily while keeping your energy costs low and efficiency high.



COW COOLER MOTORS

- 1 – 1 1/2 HP
- Low starting torque
- Ball bearings
- Capacitor start / capacitor run
- Corrosion-resistant epoxy paint



MILK TRANSFER PUMP MOTORS

- 1/2 - 1 HP
- Direct replacement for surge milk pumps
- Epoxy painted or stainless steel ratings for corrosion protection
- Permanent split capacitor design
- Double-sealed ball bearings



THREADED SHAFT MILK PUMP MOTORS

- 1/3 – 1 1/2 HP
- Washdown motor features for high pressure washdown applications
- Epoxy painted and stainless ratings available
- Replacement for BouMatic®* milk pumps



MILK TANK MOTORS

- 1/2 – 1 HP
- Replacement zero milk tank motors
- White epoxy paint for corrosion protection
- Stainless steel shaft with shaft seals
- Double-sealed ball bearings
- 1/2" – 14 tapped conduit hole



MILK PUMP MOTORS

- 1/3 – 1 1/2 HP
- Single and three phase designs
- Weather proof features for washdowns
- Cast iron NEMA® "C" end bracket
- Stainless steel shaft for corrosion protection
- Auto overload protection

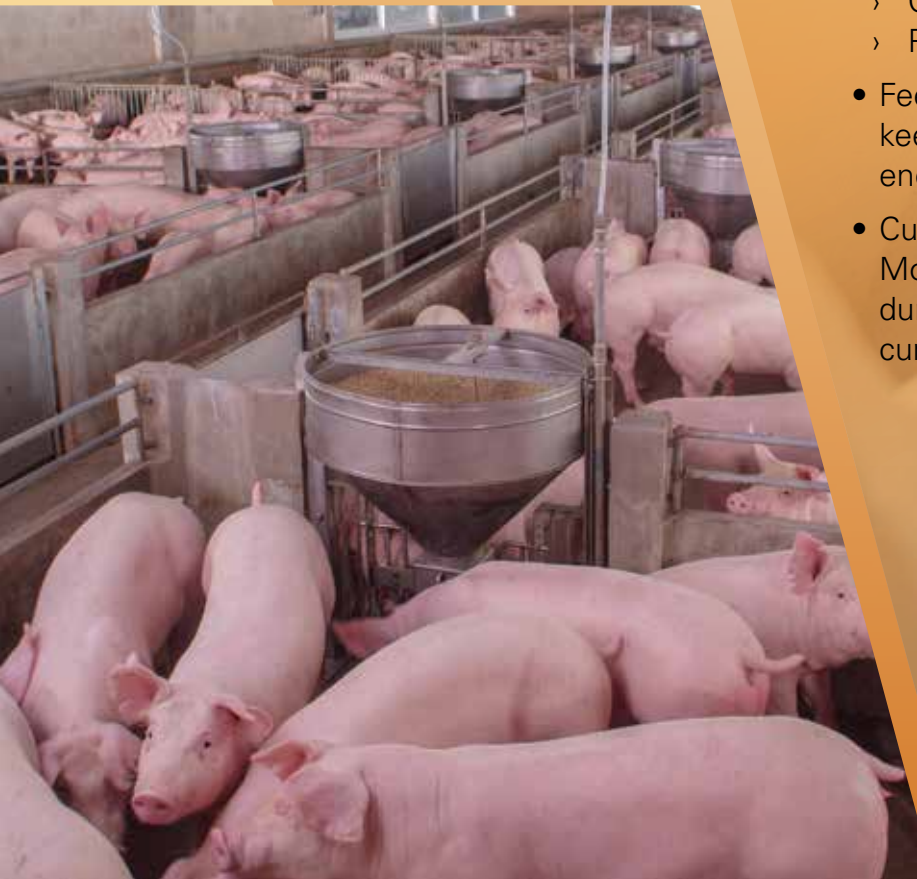


MILK TANK WASHER MOTORS

- 1 HP
- White epoxy paint for corrosion protection
- 303 stainless steel shaft
- 56J jet pump motor
- CCW rotation facing lead end



HOG FARM MOTORS



APPLICATION AND BENEFITS

- Fans (Belt and Direct Drive)—Proper air flow helps eliminate condensation, assist with heat stress and aid in barn ventilation. Used in:
 - › Cooling and ventilation
 - › Circulation
 - › Pit exhaust
- Feed Auger Driver Motors—Motors keep feed flowing while providing energy efficient operation
- Curtain and Damper Door Actuation—Motors deliver maximum power and durability for opening and closing of curtains and vents

From warming piglets during their first weeks of life to extensive cooling in the hot summer months, fans and their motors, play a critical role in proper ventilation of hog barns. Proper ventilation in pig barns improves the air quality and lessens the chance for sickness and loss of profits. From air circulating basket fans, pit fans, chain feeders, flex auger feed systems, to vent fans and curtains, efficiency in today's hog operations is critical and the Regal® brands of motors are designed with these key factors in mind.



FEED AUGER DRIVE MOTORS

- 1/3 – 1 1/2HP
- Single and three phase designs
- 50/60Hz designs available
- Manual reset thermal protector on single phase models
- High starting torque



INSTANT REVERSE MOTORS

- 1/2 – 1/2HP
- Manual overload protection
- Solid state, instant reversing



PEDESTAL FAN MOTORS

- 1/4 – 1/2HP
- Yoke mounted motor
- PSC designs
- Automatic reset thermal protector
- Drop-in replacement for most standard direct drive fan motors

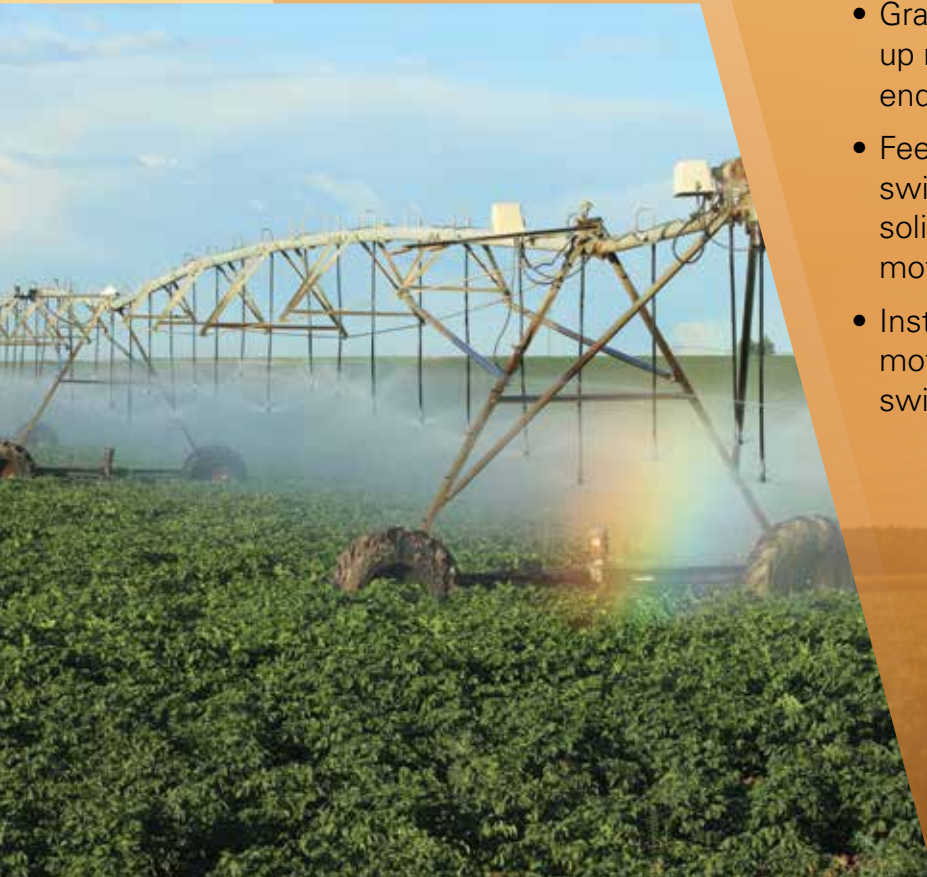


BELT DRIVE AG FAN MOTORS

- 1/2 – 2HP
- High efficiency capacitor start/run designs
- TEAO designs
- Combination 56/140 frames stamped
- Automatic overload protection



DEFINITE PURPOSE MOTORS



APPLICATION AND BENEFITS

- Irrigation Pumps and Drives—Corrosion-resistant paint and rain canopy protect motor from the elements
- Fish Pond Aerators—Weather resistant finish and high torque designs
- Grain Stirring Equipment—Vertical shaft up mounting design and over-size drive end-bearing helps ensure motor reliability
- Feed Auger Drive Motors—Motor switches have over-speed protection and solid-state switch designs to deliver long motor life
- Instant Reversing Motors—Capacitor start motors with solid state, instant reversing switches for frequent reversing service

Our definite purpose motors are designed specifically for everyday applications that demand a rugged motor to withstand the harsh, dirty/dusty, and weather-affected machinery found in the farming industry. They are drop-in replacements for many OEM designed machine and used on new equipment as well.



GRAIN STIRRING MOTORS

- 1 1/2HP
- High torque design
- Vertical shaft up mounting design
- 7/8" diameter shaft



FEED AUGER DRIVE MOTORS

- 1/3 – 1 1/2HP
- Single and three phase designs
- 50/60Hz designs available
- Manual reset thermal protector on single phase models
- High starting torque



IRRIGATION DRIVE MOTORS

- 1HP
- Double-sealed ball bearings
- Vertical shaft down design
- Rain canopy provided
- Corrosion-resistant epoxy paint



IRRIGATION BOOSTER PUMP MOTORS

- 2HP
- Threaded jet pump shaft
- Vertical shaft down design
- Rain canopy provided
- Corrosion-resistant epoxy paint



INSTANT REVERSE MOTORS

- 1/2 – 1HP
- Manual overload protection
- Solid state, instant reversing switch



CATFISH POND MOTORS

- 10HP
- Single and three phase
- Corrosion resistant finish
- High-torque designs
- Double-sealed ball bearings
- C-Face with base

marathon[®]
Motors



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APPLICATION CONSIDERATIONS

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