Order Today, Ships Fast*

Premium Efficiency Motors that pay for themselves...

For the latest prices, please check AutomationDirect.com.

*We stock hundreds of Marathon motors at AutomationDirect for immediate shipment. Other models are shipped direct from Marathon. Check our Web site for stocking location and availability.

These Marathon® Electric motor lines have been carefully selected to be performance-matched with the WEG and GS series AC drives.

Inverter-duty AC motors up to 100 hp

Models ranging from 1/4 hp to 100 hp, that feature dual 230/460 and 575 VAC voltages and base speeds of 1200, 1800, or 3600 RPM. Factory-mounted encoders are available on select models.

**Powerwash™SXT**
- All stainless steel, washdown duty
- TENV or TEFC, up to 2hp
- Mounting options: C-face with rigid base or footless
- Single phase models (non-inverter duty) also available

**Jet Pump**
- TEFC (up to 2hp) or Drip-Proof (up to 3hp)
- Stainless steel threaded shaft
- Rated for continuous duty
- Single phase models (non-inverter duty) also available

**MicroMax™**
- TENV and TEFC motors
- Dual mounting options: C-face rigid base and C-face round body
- Cooler running and lighter weight design, allowing an easy transition from PMDC to AC motors

**MAX™ with Encoder**
- Integrated Dynapar HS120 1020 ppr encoder
- Optimized for operation with IGBT inverter
- 250/460 VAC replaces 90 volt and 180 volt PMDC motors (behind with AC variable frequency drives)

**Black Max®**
- Class F MAX GUARD™ insulation system
- Constant torque operation from 0 to base speed on vector drive
- Constant horsepower operation to twice base RPM
- Optional factory-installed encoder available

**Blue Max® 2000**
- Class H MAX GUARD™ insulation system
- Constant torque operation from 0 to base speed on vector drive, including TEFC
- Constant horsepower operation to 1.5 times base RPM
- Optional factory-installed encoder available

**Blue Chip® XRI®**
- Meets or exceeds NEMA Premium Efficiency ratings
- 10:1 variable torque and constant torque
- 1.5 service factor on sine wave, 1.0 service factor on IGBT power

**XRI 4in1 General Purpose**
- Meets or exceeds all NEMA Premium efficiencies, except as noted
- Class I, Div 2 hazardous locations
- Class F insulation
- CSA® certified, CE
- Inverter ratings: 20:1 (variable torque), 10:1 constant torque
- Available in 1200, 1800, and 3600 rpm, electrically reversible
- Two year warranty

**Single-Phase Open Drip-Proof Motors**
- Ball bearings
- Capacitor start
- UL recognized and CSA certified

**Marathon Replacement Encoder Kits**
- A772 kit for Black Max A774 kit for Blue Max
- Encoder kits are complete, nothing else to buy

**2-year warranty on all IronHorse motors!**

**General purpose AC motors in the most popular sizes**

**AC T-Frame, Premium Efficiency, Cast Iron, Industrial Duty, three-phase, 208-230/460 Volt up to 300 hp, TEFC enclosure**
- Meets or exceeds Premium Efficiency standards
- Cast iron frame has ribbed design for maximum cooling
- N56/N71/ST5 bolt and premium quality ball or roller bearings
- Maintenance free bearings (10 hp and below)
- V-ring shaft seals on drive end and on opposite drive end
- Class F insulation
- Class I, Div 2 hazardous locations

**AC TC-Frame (C-Face), Premium Efficiency, Cast Iron, Industrial Duty, three-phase, 208-230/460 Volt up to 30 hp**, TEFC enclosure
- Meets or exceeds Premium Efficiency motors, starting at retired
- CSA® certified, CE
- Inverter ratings: 20:1 (variable torque), 10:1 constant torque
- Available in 1200, 1800, and 3600 rpm, electrically reversible
- Two year warranty

**AC 56C Frame Rolled Steel single-phase, 115/208-230 Volt 0.33 to 2 hp, TEFC enclosure**
- Capacitor start (1.5HP and 2HP are also capacitor run)
- 1800 RPM, electrically reversible
- Removable bolt on - bolt off base
- NEMA design B, L, or N (varies by model)
- CSA® certified, CE
- Industrial gauge motor frames and bases
- Class F insulation

**AC 56C/56HC Frame Rolled Steel, 0.33 to 3 hp**
- Premium efficiency 1 to 3 hp (rolled steel)
- 1800 or 3600 RPM, electrically reversible
- Removable bolt on - bolt off base (rolled steel)
- Welded base or round body (stainless steel)
- Industrial gauge motor frames and bases
- Class F insulation

**AC 56C Stainless Steel, 0.33 to 2 hp**
- Three-Phase 208-230/460 Volt, TEFC Enclosure
- Stainless Steel motors designed for IP66 washdown applications! Case, Ibox and fan shroud are made of 316L stainless steel and the STARTER is 304 Stainless

For the latest prices, please check AutomationDirect.com.
IronHorse® Permanent Magnet DC Motors (SCR Rated)

IronHorse® DC Motors (up to 2 hp)
IronHorse DC motors are designed for use on unfiltered SCR (Thyristor) type and PWM (pulse width modulated) type DC adjustable speed drives, and on across-the-line DC controls. The IronHorse line of DC motors features:

- Open drip-proof enclosure
- Inverter capable
- NEMA design B
- Class F winding insulation
- Service Factor: 1.35 across-the-line (1.0 for inverter applications)
- cURus certified, CE

IronHorse worm Gearboxes
Aluminum or cast iron

IronHorse worm Gearboxes are designed for use on unfiltered SCR (Thyristor) type and PWM (pulse width modulated) type DC adjustable speed drives, and in across-the-line applications. The IronHorse worm gearbox features:

- Three output types: Dual Shaft, Right Hand Shaft and Hollow Shaft
- Four frame sizes: 1.75”, 2.06”, 2.37”, 2.62”
- Six ratios: 5:1, 10:1, 15:1, 20:1, 40:1, 60:1
- Ironhorse gearboxes utilize C-face mounting interfaces for C-face motors
- Worm gear reducer mounting bases are also available for ease of installation

Motor Bases
starting at $10.00

Motor slide bases are used to accurately and easily position your motor. Available in sizes from NEMA 56 - NEMA 449T, you can use these bases to mount all IronHorse or Marathon® motors. See the motor and base selection chart later in this section.

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From the Leader in AC Variable Speed Products

Marathon inverter-duty motors

These Marathon Electric motor lines have been carefully selected to be performance-matched with the DURA® and GS series AC drives. The offering includes models ranging from ½ hp to 100 hp, that feature 575 VAC and dual 230/460 VAC voltages and base speeds of 1200, 1800, and 3600 RPM.

- **Powerwash™ SXT** series stainless-steel housed TE (Totally Enclosed) three-phase motors, up to 2HP, are suitable for washdown applications and are inverter capable. Models are available in various NEMA frame styles, and are either “footless” (no base, intended for C-face mounting) or choose from models with rigid bases and C-face mounting provisions.

- **Jet Pump (Centrifugal) Motors** are used to power industrial, commercial, centrifugal, hydraulic pumps, well pumps, and other liquid pumping applications. Marathon TEFC (Totally Enclosed Fan Cooled) up to 2 HP or Drip-Proof three-phase jet pump motors, up to 3 HP are rated for continuous duty. They are excellent replacements for 90 Volt and 180 volt PMDC motors when used with variable frequency AC drives.

- **microMAX™ TENV and TEFC motors** (1/4 to 10 hp) offer dual mounting options, C-face rigid base and C-face round body, cooler running and lighter weight design, allowing an easy transition from PMDC.

- **MAXx™ with Encoder** TENV motors (1/2 to 5 hp) with integrated Dynapar HS20 1024 ppr encoder are optimized for operation with IGBT inverters. These 230/460 VAC motors can replace 90 Volt and 180 volt PMDC motors when used with AC variable frequency drives.

- **Black Max® TENV motors** are used in any high performance application with closed or open loop vector controls or Volts/Hertz drives and for countless machinery applications where full torque at zero speed is required. The low inertia design provides extremely quick response to accel and decel commands, as well as changes in direction. Uses include machine tools, conveyors, crane and hoist systems, extruders and packaging/converting equipment.

- **NEMA Premium® Efficiency XRI® series motors**, from 1 to 10 hp, are compliant with the Energy Independence and Security Act of 2007, giving you both a low purchase price and long-term energy savings.

- **Blue Chip XRP** Ultra High Efficiency motors optimize motor system efficiency, reduce electrical power consumption and costs, and improve system reliability. They offer substantial energy savings when used on high cycle or long run time applications and meet NEMA Premium® efficiency levels. Uses include compressors, pumps, conveyors, blowers, and other machinery in dirty or dusty environments.

- **Blue Max® 2000 TEFC and TEB C motors** are used in variable frequency drive applications requiring full rated torque at zero speed with closed or open loop (sensorless) vector controls. The cast iron construction makes this motor an ideal choice for process lines, chemical plants, paper mills or other environment requiring cast iron or “severe duty” construction.

Marathon replacement encoder kits

The A772 kit for Black Max, A774 kit for Blue Max TEFC, and A775 kit for Blue Max TEB C, motors can be used to replace or add an encoder on these motor series.

Marathon single phase motors

These general-purpose motor lines from Marathon Electric are suitable for washdown, food and beverage, or jet-pump and water-pump applications. They are available up to 2hp, with dual 115/230VAC voltages, and base speeds of 1800 or 3600 RPM.

- **Powerwash™ SXT** series stainless-steel housed TEFC (Totally Enclosed Fan Cooled) single-phase motors, up to 2HP are suitable for washdown applications. General purpose AC induction motors are widely used to power blowers, conveyors and other industrial machinery. These motors have an encapsulated electronic starting switch that is impervious to moisture, and one-way condensation drains in each end shield and conduit box for all angle mounting. These NEMA 56C or 145TC frame models have a capacitor start induction run design for high starting torque and include rigid base and C-face mounting provisions.

- **Jet Pump (Centrifugal) Motors** Centrifugal jet pump AC induction motors are used to power industrial, commercial, centrifugal, hydraulic pumps, well pumps, and other liquid pumping applications. Marathon TEFC (Totally Enclosed Fan Cooled) single-phase jet pump motors, up to 2 HP are rated for continuous duty. They offer double-sealed bearings and a 416 stainless steel threaded shaft with slinger. These models, with NEMA 56J frames, are “footless” (no base) and are intended for C-face mounting.

Compatible components for Marathon motors

- **Cast Iron worm gears**
  - Heavy Duty
  - C-face mounting
  - Six Ratios: 5:1 to 60:1
  - Multiple output shaft options
  - Input power: 1 to 5 hp

- **Helical gears**
  - Heavy duty – cast iron frames
  - C-face mounting
  - Eight Ratios: 5:1 to 60:1
  - Sized to handle 1 to 20 hp

- **Aluminum worm gears**
  - Light weight – medium duty gears
  - Hollow shaft output
  - Gear ratios: 10:1 to 100:1
  - Input faces: 56C, 35T, 382/NOTC
  - Input power: 0.25 to 5 hp

- **Shaft mount gearboxes**
  - Cast iron housings
  - 9, 15:1 and 25:1 ratios
  - Frame sizes 2 to 5
  - Input power up to 40 hp (depending on service class)

- **Stable™ Motor Slide Bases**
  Motor slide bases are used to accurately and easily position your motor. Available in sizes from NEMA S6 - NEMA 449T, you can use these bases to mount all Marathon motors. See the motor and base selection chart at the end of this section.