# STOCK MOTOR PRODUCTS

## SINGLE PHASE (TEFC)

**FARM DUTY**
- 3/4 - 10 HP: 1800 RPM
- 115/230V through 2 HP, 230V for 3 HP and Above
- 1.15 Service Factor, Continuous Duty
- Manual Reset Overload Protection

**HVAC**
- NEMA Premium: DDP 3/4 - 3 HP: 3600, 1800 RPM
- NEMA Premium: TEFC 3/4 - 3 HP: 3600, 1800 RPM
- EAPT: TEFC 3 - 10 HP: 3600, 1800 RPM

## MAX-HT™

- High Torque Crusher Motors
- 20 - 150 HP at 230/460V; 460V above 150 HP
- 100 - 900 HP at 2300/4160V
- TEFC (IP55)
  - NEMA Design C: 20 - 200 HP; (Locked Rotor Torque 200% FLT)
  - NEMA Design A: 250 HP & Up; (Locked Rotor Torque 200% FLT)
- CSA Certified for Class I, Div 2, Groups B, C & D, T3
- Class II, Div 2, Group F & G, T3, 440 Frame and Above
- High Strength Steel, AISI 4340, Shaft Material
- Suitable for Vertical Mounting for Vertical Impact Crushers

## ROLLED STEEL MOTORS

- 3/4 - 10 HP: 3600, 1800 RPM
- TEFC / TENV (1PH)
- All Stainless Steel Construction
- All Motors Come with a C-Face Kit
- UL Recognized, CSA Certified and CE Marked
- Self-Certified for Class I, Div 2, Groups B, C & D; Temp Code T3C
- F1/ F3 Available

## ODP CAST IRON MOTORS

- 1 - 800 HP: 3600, 1800, 1200 RPM
- 230/460V through 125 HP; 460V for 150 HP and Larger
- Also Available in 575V
- Suitable for Inverter Duty with 20:1 Variable Torque and 10:1 Constant Torque Speed Ranges
- All Cast Iron Construction
- UL Approved for Fire Pump Applications
- C & D Flanges Available

## MAX-PE™

- 1 - 800 HP: 3600, 1800, 1200 RPM
- Dual Rated for Both 230/460V 60Hz or 190/380V 50Hz
- Cast Iron Frame and End Brackets
- Rolled Steel Terminal Box and Fan Cover
- UL Recognized, CSA Certified and CE Marked
- Footed C-Face and Round Body C-Face Stocked up to 100 HP

## OIL WELL PUMP MOTORS

- 5 - 125 HP (ODP): 1200 RPM
- 75 - 100 HP (TEFC): 1200 RPM
- ODP: 230/460V with Rodent Screen
- TEFC: 230/460V
- NEMA Design D, High Slip (Min. 5%)
- Standard with Klixon Temperature Limiting Device
- All Cast Iron Construction

## STAINLESS STEEL WASHDOWN MOTORS

- 3/4 - 10 HP: 3600, 1800 RPM
- TEFC / TENV (1PH)
- All Stainless Steel Construction
- All Motors Come with a C-Face Kit
- UL Recognized, CSA Certified and CE Marked
- Self-Certified for Class I, Div 2, Groups B, C & D; Temp Code T3C
- F1/ F3 Available

## MAX-VH/VHP™ / MAX-VS/VSP™

- 7.5 - 800 HP: 1800, 1200 RPM
- Vertical Hollow and Solid Shaft, High Thrust Motors
- WPI/TEFC Enclosures
- Standard with Ball Type Non-Reversing Ratchet
- Multiple Coupling, Base & Steady Bushing Options
- Wound with Inverter Duty Wire
- Oversized Angular Contact or Spherical Thrust Bearings

## MAX-E1®

- 3/4 - 800 HP: 3600, 1800, 1200, 900 RPM
- NEMA Premium Efficiency, 500 HP and Below
- 230/460V through 125 HP; 460V for 150 HP and Larger
- Also available in 575V
- CSA and UL Approved for Inverter Duty per NEMA MG-1, Part 31
- CSA Certified for Class I, Div 2, Groups B, C & D
- Class II, Div 2, Group F, G 440 Frames and Larger
- Footed C-Face and Round Body C-Face Available

## OIL WELL PUMP MOTORS (JY/JP)

- 1 - 50 HP
- 3600, 1800, 1200 RPM
- CE Marked
- Meets NEMA Premium Efficiency Requirements
- TEFC Motors have Cast Iron Frames
- ODP Motors have Rolled Steel Frames
- UL Approved for Fire Pump Applications

## MAX-E2/841®

- 1 - 500 HP: 3600, 1800, 1200, 900 RPM
- Meets or Exceeds IEEE 841 Standards
- INPRO™ Seals - VBXX
- All Cast Iron Construction
- CSA Certified for Class I, Div 2, Groups B, C & D
- Class II, Div 2, Group F, G 440 Frames and Larger
- CSA and UL Approved for Inverter Duty per NEMA MG-1, Part 31
- Footed C-Face and Round Body C-Face Available

## GLOBAL SERIES™ MEDIUM VOLTAGE

- 100 - 1000 HP (WPI): 3600, 1800, 1200, 900 RPM
- 100 - 2000 HP (TEFC): 3600, 1800, 1200, 900 RPM
- 2300/4160V Dual Voltage
- Vacuum Pressure Impregnated Form Wound Coils
- 120V Space Heater and 100 Ohm (Pt) Winding RTD’s 2/Phase
- TEFC Design Meets the NEMA Premium Standards

## EXPLOSION PROOF (Division 1, Zone 1)

- 1 - 400 HP: 3600, 1800, 1200, 900 RPM
- Class I, Group D, Class II Group F, E, F, & G, T3B
- Class I, Group C & D, Class II E, F & G, T3B for 256 frame and below
- UL Approved for Inverter Duty
- Footed C-Face and Round Body C-Face Stocked up to 100 HP

## FIRE PUMP MOTORS

- Horizontal: ODP Rolled Steel, NEMA Premium Efficiency; 1 - 40 HP
- Horizontal: ODP Cast Iron, NEMA Premium Efficiency; 1 - 400 HP
- VHS, WPI, 7.5 - 400 HP
- 3600, 1800, or 1200 RPM
- 460V Nameplate, 230/460V (460V Only Above 150 HP)
- Safety Red Paint Available as an Option
CUSTOM INDUCTION MOTORS
- 250 – 30,000 HP AC Induction Motors
- Thermalastic® Epoxy Insulation System
- Rugged Thru-Bolt Construction and End Rings
- Copper or Copper Alloy Rotor Bars
- Anti-Friction or Spherically-Seated, Self-Aligning, Split-Sleeve Bearings
- High Efficiency Designs for Reduced Life-Cycle Costs
- API 541, PAM, and Marine Duty Designs Available
- Horizontal and Vertical Configurations

SYNCHRONOUS MOTORS
- 1000 – 100,000 HP
- Anti-Friction or Spherically-Seated, Self-Aligning, Split-Sleeve Bearings
- Brush or Brushless Excitation
- Thermalastic® Epoxy Insulation System
- High-Speed and Slow-Speed Designs Available
- VFD Applications Available
- Special Mill and Marine Duty Designs Available
- API 46 Designs Available

WOUND ROTOR MOTORS
- Available from 25 – 20,000 HP
- Continuously Rated Slip Rings and Brushgear
- Heavy-Duty Rotor Construction for Dependable Service
- Thermalastic® Epoxy Insulation System
- Advanced Bearing System for Reliable Performance
- Rugged Frame Construction for Strength and Reliability
- Brush Lifting and Short Circuiting Devices Available
- Secondary Control Also Available

VERSABRIDGE®
- 1000 – 40,000 HP; 2300 - 13,800V
- Scalable Modular Power Electronics Building Blocks
- NEMA 1 or NEMA 3R
- Advanced 2 Phase Liquid Cooling
- Water or Considerable HVAC Not Required
- User Serviceable
- Fuseless & Filterless
- Patented Universal Design
- Proven Topology
- Film Caps (Long Life)
- Standard Components
- Sealed Power Cubes

SG MOTORS FROM STOCK
- 800 – 3000 HP Induction Motors Available from Stock
- 2, 4, 6, 8 Pole
- 2300/4160V, WP2 Enclosure
- Ideal for H-Pump or Reciprocation Applications
- Suitable for Class 1, Div 2, Groups B, C & D, Temp Code T3C
- Bi-directional, F3 and F2
- Inverter Duty Design
- Anti-Friction or Spherically-Seated, Self-Aligning, Split-Sleeve Bearings
- Air Filters and Differential Pressure Switch Included

DC MOTORS
- Ratings up to 35,000 HP for the Metals, Mining, Marine, and Special Application Markets
- Special Insulation Coatings to Maintain High Insulation Resistance over Life of the Motor
- “Balanced Spring” Commutator to Assure Long Brush Life and Minimal Maintenance
- Rugged Armature Featuring Keyless Fits
- Rugged Spiders Smoothly Transmit Torque
- Heavy-Duty Stators Offer Proven, Long Lasting Reliability
- Spherically-Seated, Self-Aligning, Split-Sleeve Bearings

PAM MOTORS
- Multispeed, Squirrel Cage Induction Motor with a Single Winding
- Ideal for 1D, FD, and PA Fan Applications
- Lighter, Smaller and More Efficient than a Two-Winding Motor for Comparable Rating and Applications
- Longer Rotor Life Due to Less Heating During Starting
- Power Savings at Reduced Loads

COMPLETE SYSTEM SUPPLY
Complete System Solutions Available
- AC Electric Motors
- Medium Voltage Drives
- Switchgear
- Synchronous Transfer
- Motor Control Centers
- Electrical Houses
- System Studies
Our Motor Health Management products are the next generation of machine monitoring for any rotating equipment with anti-friction bearings. The IoT gateway with our system serves as a secure private cloud for users to manage their own Real Time Monitoring, Interactive Data Collection, Diagnostic Analysis and Reporting. Subscriptions are not required for cloud access with our device! This is a portable device with built-in Wi-Fi and the Wi-Fi gateway is accessible simultaneously by up to 20 mobile devices via a free mobile app for iOS and Android.

The tri-axial vibration sensors can be easily located in the correct ISO-10816 positions for data collection on rotating machines to perform an analysis of live data in real time. Also, this system can be used on any rotating equipment (motors, pumps, air compressors or gear reducers) and there are multiple options available. The portable Pro-3200 interactively integrates measurement, analysis, and diagnosis all in one device. The MMK AG-300 Plus, TP-7 and xDaQ-600 offer the added features of continuous monitoring of machine KPI’s and push notification for alarm conditions.
L510 MICRODRIVE
• 1/4 - 3 HP, 115/230/460V
• V/F with Auto-Torque Boost or Sensorless Vector
• Built-in Modbus and BACnet Protocols
• PID Control
• 5 Digit Operators Keypad with Built-in Speed POT
• Din Rail Mountable (with Mounting Kit)

E510 COMPACT DRIVE
• 1/2 - 75 HP, 230/460V
• V/Fz, Sensorless Vector, Permanent Magnet Sensorless Vector
• Conformal PCB Coating
• PLC Functionality
• 5 Digit LED Removable Keypad with Speed POT
• Built-in Dynamic Braking Transistor for Ratings up to 25 HP
• Built-in Modbus & BACnet
• Removable Keypad for Remote Mounting
• NEMA 1 Conduit Kit Included as Standard (Frame 1-4)

A510 HEAVY DUTY DRIVE
• 1 - 250 HP (CT), 230/460/575-690V
• 1 - 270 HP (VT), 230/460/575-690V
• V/Fz, Sensor Vector Closed Loop, Sensorless Vector, Permanent Magnet Sensorless Vector
• LCD Keypad with Copy Capabilities
• Extreme Diagnostics and Monitoring
• PLC Functionality
• Advanced Regeneration Load Handling
• Wide Range of Applications

TEAMMASTER™ LV SOFT STARTER
• 10 - 1000 HP, 208 - 575V
• Crusher Duty Panels
• Bypass with ATL Start
• Adaptive Control
• Door Mounted LCD Keypad
  - Monitor, Program, and Troubleshoot
  - Copy Capabilities
• Custom Engineered Packages
• Supplied as NEMA 1, NEMA 3R, or Chassis Configuration

EQ7 MULTI-PURPOSE DRIVE
• 1 - 1000 HP (VT), 230/460V
• 1 - 900 HP (CT), 230/460V
• V/F Dynamic Torque, Sensorless, Sensor, and PI Vector
• Robust Design and Wide Capabilities
• LED/LCD Keypad with Extensive Monitoring, Copy, and Diagnostic Capabilities
• Conformal Coating and Tin-Plated DC Bus
• UL Approved Single Phase Input Operation

TEAMMASTER™ MV SOFT STARTER
• 500 - 6000 HP, 2300 - 7200V
• Heavy Duty with Across the Line (ATL) Rated Bypass
• Can Operate as a Soft Starter or ATL starter
• Current, Torque, HP, or Voltage Modes of Start Up
• Kick Start Capabilities
• LCD Keypad with Copy Capabilities on Door as Standard

CUSTOM PACKAGED VFDS
Optional Cabinets with Fused Disconnects or Circuit Breakers
• NEMA 1, 12, 3R are Standard (NEMA 4 by Request)
• 208, 230, and 460V Standard (Packages at 380, 415, 575,
• and 600V Available on Request)
• Wall or Floor Mounting Door; Mounted Control Devices
• Packaged Drives with Bypass
• 2 or 3 Contactor Bypass
• Circuit Breaker or Fused Disconnect
• Input/Output Reactors and DV/DT Filters
• All Features as Shown with Optional Cabinets

M+I PACKAGES
Additional 5% Discount When Purchasing Matching Motor and Inverter as a Set
• Premium Efficient Motors and Inverter Combination Packages
• Packages Developed for Both Constant or Variable Torque Applications
• Motors – 900 through 3600RPM; 230/460V
  - Rolled Steel and Cast Iron ODP: 143T through 5009B
  - Max-E15 Type AEHE, AEHH8N through 800 HP
• Inverters – 230VAC: 1-125 HP; 460VAC: 1-800 HP
  - EQ7 or A510 Drives for Constant Torque Applications
  - EQ7 or FS10 Drives for Variable Torque Applications
• 5 Year Warranty Valid on All Combination Packages
TECO-Westinghouse is a leading manufacturer of electric motors and variable frequency drives. We offer a full line of induction, synchronous and DC motors & generators available from ¼ HP to 100,000 HP, as well as a wide variety of low and medium voltage variable frequency drives and motor controls. We can also test medium voltage drives (MVDs) and motors as a package in our Round Rock, Texas factory. Additionally, we supply switchgear, system studies and aftermarket services such as engineering studies, genuine Westinghouse renewal parts, and large motor and MVD repairs.