INDUSTRIAL MANUFACTURING

## U.S. MOTORS® makes it easy to find the right, energy-efficient replacement motor.

Walk through any industrial manufacturing plant and you will find hundreds of applications driven by electric motors. Motors drive core industrial processes and depending on the industry, they power presses, conveyors, compressed air generation, ventilation, water pumping, and heating and air systems, to name a few. In short, electric motors are the main source of mechanical energy in industry. They are also the focus for energy reduction, offering huge opportunities for significant savings.

U.S. MOTORS® brand motors ensure round-the-clock reliability and maximum efficiency, improving your operation by:

- Reducing energy consumption
- Increasing equipment uptime
- Eliminating wasteful maintenance
- Reducing on site inventory

Nidec Motor Corporation understands industrial process and knows having the right replacement motor available when you need it is critical to your operation. We offer an extensive line of U.S. MOTORS brand replacement motors, both fractional and integral, for every application in your plant…from building systems to processing equipment to conveyor systems. And, we have the on-line tools to help you find the correct replacement motor quickly.

Looking for a direct replacement fractional or integral motor? Look no further. The U.S. MOTORS line offers an extensive portfolio of replacements and we have the tools—both eBusiness, and motor specifications and technical data, to connect you with the right motor quickly at **www.usmotors.com/OnLine-Catalog.aspx**:

- Competitive cross reference tools
  - More than 50,000 cross references by competitor or OEM catalog and model numbers.
- eCatalog search tool (search by ID, features or applications)

- Online chat
- Dimension prints
- Nameplate data
- 3D models
- Performance data
- Wiring diagrams
- Installation and maintenance manuals

The U.S. MOTORS line of products, as well as a full complement of production and facilities maintenance solutions, is available locally and throughout the world:

- On hand inventory at local distributors
- Authorized service stations—warranty and repair

*If you have questions, e-mail us at FacilityMRO@nidec-motor.com*





MRO—Industrial Manufacturing 9/19

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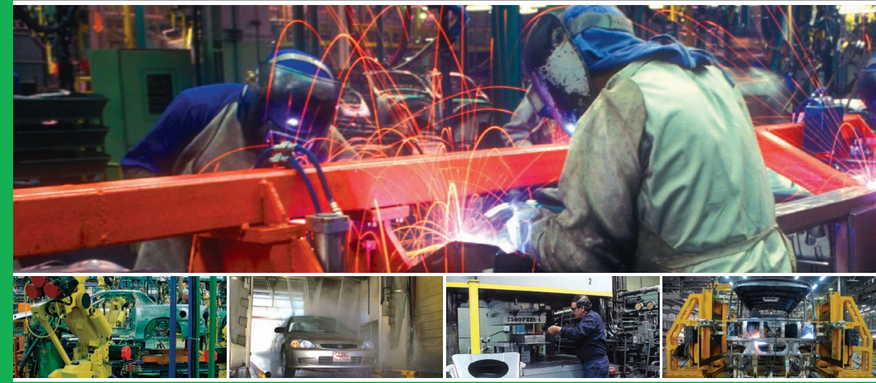
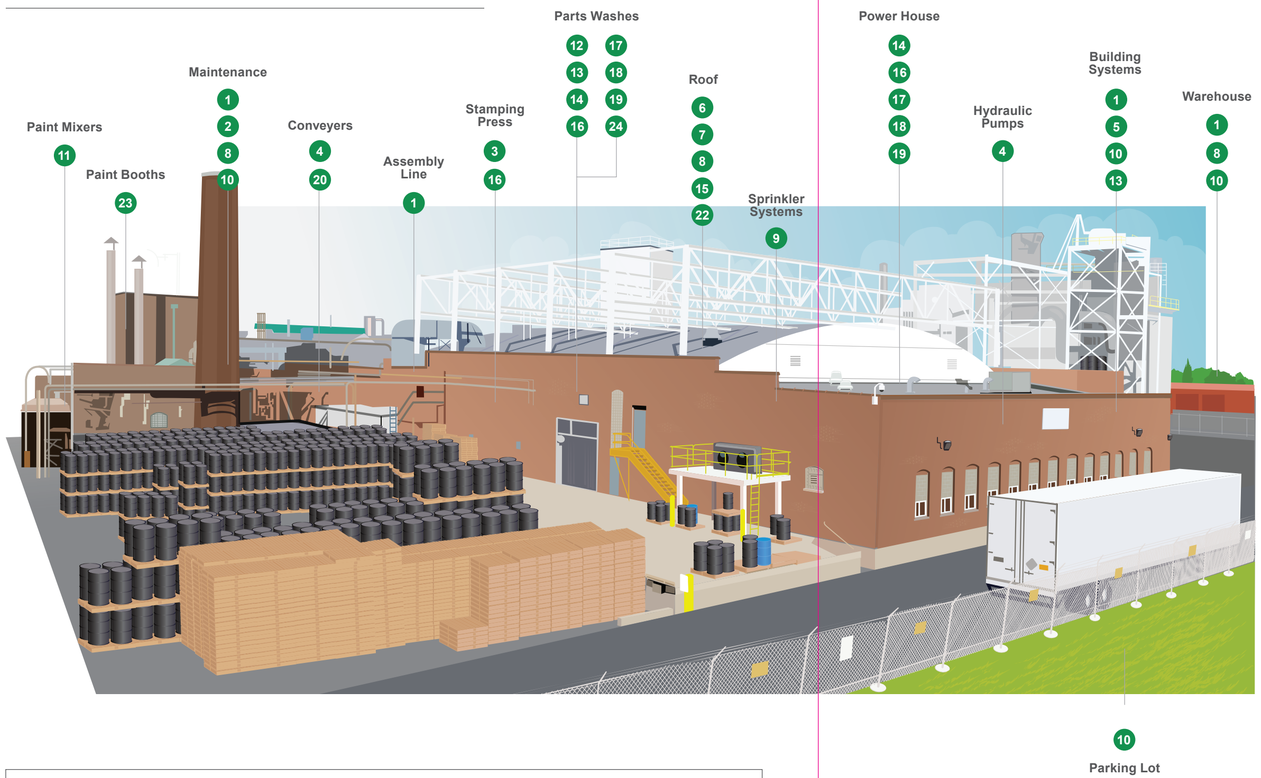
# Industrial Manufacturing

## Facilities Maintenance Electric Motor Guide



FRACTIONAL AND INTEGRAL
REPLACEMENT MOTORS

## We make it EASY for you to find and purchase U.S. MOTORS® brand replacement motors!




The U.S. MOTORS® brand NEMA Premium®† line of high performance commercial and industrial motors is designed to help industry reduce energy consumption and comply with EISA regulations. This line features upgraded Open Drip-Proof and Totally Enclosed motors that meet or exceed NEMA Premium®† requirements.

## Product Overview *(listed in alphabetical order)*

**1 Air Circulator Motors**
- Single Phase, OAO and TEAO
- 1/15, 1/10 HP and 1/4 – 1/2 HP
- 1800, 1200, and 900 RPM
- 42 – 56 Frame
- Single and two speed options
- Oscillating and non-oscillating options

**2 Air Compressor**
- Single Phase, ODP
- 1/2 – 5 HP
- 3600 RPM
- 56, 143 and 184 Frame
- High breakdown torque

**3 Automotive Duty U-frame**
- Three Phase, ODP
- 1/4 – 300 HP
- 3600, 1800, 1200 and 900 RPM
- 56 – 5008 Frame
- Meets General Motors®† GM-7EQ & GM-7EH, Ford®† EM1 and Chrysler®† NPEM-105 spec

**4 C-Face: ODP, TEFC and Hazardous Location**
- Single Phase, Split Phase & Capacitor Start
- Three Phase, Footed and Footless options
- 1/12 – 60 HP
- 3600, 1800 and 1200 RPM
- 56 – 326 Frame
- Standard, Energy and Premium Efficient

**5 Close Coupled Pump**
- Single and Three Phase, ODP, TEFC and Hazardous Location
- 1 – 60 HP
- 3600 and 1800 RPM
- 143 – 326 Frame
- JM and JP shafts available

**6 Condenser Fans**
- Single and Three Phase, OAO and TEAO
- 1/10 – 2 HP
- 1725, 1625, 1550, 1075 and 825 RPM
- 48 and 56 Frame
- Single and two speed

**7 Cooling Tower**
- Three Phase, TEFC and TEAO
- 2 – 100 HP
- 1800, 1200, 1800/900 and 1200/600 RPM
- 145 – 447 Frame
- Single and two speed
- Energy efficient and NEMA Premium®†/inverter duty
- Meets specifications for Baltimore Aircoil Company,®† Evapco®† and Marley®† cooling tower motors

**8 Fan and Blower**
- Single Phase, ODP, OAO and TEAO
- 1/6 – 1-1/2 HP
- 3450, 1725, 1075 and 825 RPM
- Single, two, three and four speed
- Belt drive and direct drive

**9 Fire Pump Motor**
- Three Phase, ODP
- 7-1/2 – 250 HP
- 3600 and 1800 RPM
- 184 – 445 Frame
- UL®† listed for fire pump application
- Available in horizontal frame and vertical JP close coupled pumps

**10 Gate and Door Motors**
- Single and Three Phase, ODP and TEFC
- 1/3 – 1 HP
- 1800 RPM
- 56 and 56C Frame

**11 Hazardous Location**
- Single and Three Phase, TEFC
- 1/12 – 150 HP
- 3600, 1800, 1200 and 900 RPM
- 56 – 445 Frame
- Energy and Premium Efficient
- Class I, Group D; Class I, Groups C and D and Class II, Groups E, F, and G

**12 ODP and TEFC, Single Phase, Capacitor Start**
- 1/8 – 10 HP
- 3600, 1800 and 1200 RPM
- 48 – 215 Frame
- Rigid welded and cradle bases
- C-Face Footed and Footless
- Automatic or manual reset thermal overload protector options

**13 ODP and TEFC, Single Phase, Split Phase**
- 1/12 – 3/4 HP
- 3600, 1800, 1200 and 900 RPM
- 48 – 56 Frame
- Rigid welded and cradle bases
- Single and two speed options
- C-Face Footed and Footless
- Automatic or manual reset thermal overload protector options

**14 ODP, Three Phase**
- 1/4 – 400 HP
- 3600, 1800, 1200 and 900 RPM
- 48 – 449 Frame
- Energy and NEMA Premium®† efficient

**15 Package Terminal A/C Heat Pump**
- Single Phase, OAO
- 1/30 – 3/4 HP
- 1625, 1050, 1100 and 925 RPM
- 5.0", 5.6" and 6.3" diameter
- Single, two, three and four speed

**16 TEFC, Three Phase, 841 PLUS®**
- 1 – 400 HP
- 3600, 1800 and 1200 RPM
- 143 – 447 Frame
- Meets IEEE®† 841 GM7E-TA specifications
- Five-year limited warranty*
- NEMA Premium®† efficient
- VBXX®† bearing isolators by Inpro/Seal®† help protect bearings

**17 TEFC, Three Phase, CORRO-DUTY®**
- 1 – 400 HP
- 3600, 1800 and 1200 RPM
- 143 – 447 Frame
- All cast iron construction
- NEMA Premium®† efficient

**18 TEFC, Three Phase, HOSTILE DUTY™**
- 1 – 350 HP
- 3600, 1800, 1200 and 900 RPM
- 143 – 449 Frame
- Energy and NEMA Premium®† efficient
- Cast iron frame and brackets
- Ball and roller bearing options

**19 TEFC, Three Phase, UNIMOUNT®**
- 1/4 – 30 HP
- 3600, 1800, 1200 and 900 RPM
- 56 – 286 Frame
- Energy and NEMA Premium®† efficient
- C-Face, Footed and Footless and removable base

**20 UNIMOUNT® Brake Motor**
- Three Phase, TEFC with Brake
- 1/3 – 20 HP
- 1800 and 1200 RPM
- 56 – 256 Frame
- Rigid base, C-Face, Footed and Footless

**21 TITAN® Horizontal**
- Three Phase, ODP, WPI, WPII, TEFC and Hazardous Location
- 150 – 4000 HP
- 3600, 1800, 1200, 900, 720 and 600 RPM
- 449 – 9608 Frame
- 460 – 6600 Volts
- Ball or sleeve bearings available

**22 Unit Heater**
- Single Phase, TEAO
- 1/15 – 3/4 HP
- 1550 and 1075 RPM
- 48 and 56 Frame
- Cradle and stud mount

**23 Vertical Pump Motors**
- Three Phase, WPI, WPII, TEFC and Hazardous Location
- 3 – 4000 HP
- 3600, 1800, 1200, 900, 720, 600 and 514 RPM
- 182 – 6810 Frame
- Designed for high or normal thrust
- Available in vertical HOLLOSHAFT® and vertical solid shaft

**24 Washdown Motors**
- Painted, Paint-Free and Stainless Steel
- 1/2 – 10 HP
- 3450, 1725 and 1150 RPM
- 56 – 215 Frame

*†All marks shown within this document are properties of their respective owners.*
**For details, refer to:* ***www.usmotors.com***