

PRODUCT OVERVIEW

2013



BALDOR®

A MEMBER OF THE ABB GROUP

MOTORS

Motor efficiency level available as needed for local efficiency regulations

- NEMA Premium® (IE3) for U.S., Canada and Mexico 1-200 Hp (0.75 - 150 kW)
- Energy Efficient (IE2) for Subtype II 1-200 Hp (0.75 - 150 kW) and 201 - 500 Hp (370 kW)
- Standard efficiency (IE1) for exempted motors

General Purpose Motors – Single Phase



- TENV & TEFC 1/12 - 15 HP (0.06 - 11 kW)
- ODP 1/6 - 10 HP (0.12 - 7.5 kW)
- C-face – with and without base, D-flange
- 50 Hz and 50/60 Hz available

General Purpose Motors – TEFC



- TENV & TEFC 1/8 - 1500 HP (0.09 - 1100 kW)
- 200, 230/460, 460, 575 VAC
- C-face – with and without base, D-flange
- 50 Hz and 50/60 Hz available

General Purpose Motors – ODP



- 1/4 - 1500 HP (0.18 - 1100 kW)
- 200, 230/460, 460, 575 VAC
- C-face – with and without base, D-flange
- 50 Hz and 50/60 Hz available

Large AC Induction Motors



- TEFC, TEAAC & TEWAC, ODP, WPI, WPIL to 30,000 HP (23 MW)
- Low (to 690 VAC), Medium Voltage (to 6900 VAC), High voltage (to 13.2 kV)
- Vertical and horizontal mounting // 50 and 60 Hz
- NEMA, IEC, CSA, BS, ANSI, API 541, API 547
- ATEX, IEC Ex, UL, CSA, GOST-R, GOST-K, hazardous area certificates available
- Major marine certifications available, e.g. ABS, DNV, BV, and GL
- Slip-ring Motors available up to 24,000 HP (18 MW)

ABB Large AC Synchronous Motors and Generators



- WPI, WPIL, TEWAC and TEAAC enclosures up to 65 MW and 80 MVA
- 4-40 Poles / 50, 60 Hz or VSD
- Low Voltage 220-690V, High voltage 1-15 kV, Very high voltage 15-70 kV
- Horizontal or vertical mounting with frame sizes from 180 - 2500 mm
- Multiple bearing configurations available, including single bearing
- NEMA, IEC, CSA, BS, ANSI and API 546
- ATEX, IEC Ex, UL, CSA, and GOST-R hazardous area certificates available
- Major marine certifications available, e.g. ABS, DNV, BV, and GL

Severe Duty Motors



- TENV & TEFC 1/2 - 3000 HP (0.37 - 2250 kW)
- 200, 230/460, 460, 575, 690, 2300, 3300, 4000, 6600, 11,500 VAC
- C-face – with and without base, D-flange
- IEEE Std. 841-2009
- Design D (high slip) Oil Field Pump motors
- Crusher and Quarry Duty high torque design motors
- Design D (High slip) Oil Field Pump Motors 3 - 150 HP (2.2 - 112 kW)
- 50 Hz and 50/60 Hz available

Explosion Proof Motors



- TENV & TEFC 1/4 - 800 HP (0.18 - 600 kW)
- Division 1, Division 2, Class I & Class II certifications
- 1.0, 1.15 S.F.
- Single and Three Phase
- 115/230, 200, 230/460, 460, 575 VAC
- C-face – with and without base, D-flange
- 50 Hz and 50/60 Hz available
- ATEX and IEC Ex certifications available

Washdown Duty Motors



- TENV & TEFC 1/4 - 20 HP (0.18 - 15 kW)
- 200, 230/460, 460, 575 VAC
- C-face – with and without base
- White washdown, paint-free, stainless and SSE Encapsulated stainless designs
- Feather pickers
- 50 Hz and 50/60 Hz available

Pump Motors



- TEFC 1 - 50 HP (0.75 - 37 kW)
- ODP 1 - 75 HP (0.75 - 56 kW)
- JM, JP and West Coast mounting, SAE Hydraulic Pump
- Vertical Solid Shaft, Low, Medium and High Thrust, API 610 to 900 HP (670 kW)
- Jet Pump 56J through 3 HP (2.2 kW)
- Single and Three Phase
- 115/230, 200, 230/460, 460, 575, 2300/4000 VAC
- 50 Hz and 50/60 Hz available
- Submersible 1 - 450 Hp (.75 - 335 kW) and Immersible 5 - 250 Hp (3.7 - 186 kW) Designs
- Pump motors with shaft grounding for use with adjustable speed drives

HVAC Motors



- TENV & TEFC 1 - 50 HP (0.75 - 37 kW)
- ODP 1 - 100 HP (0.75 - 75 kW)
- Single and Three Phase
- 115/230, 200, 230/460, 460, 575 VAC
- 50 Hz and 50/60 Hz available
- Resilient Mount Motors
- TEAO Cooling Tower motors 3 - 100 HP (2.2 - 75 kW)
- Motors with shaft grounding for use with adjustable speed drives

Farm Duty Motors



- Single and Three Phase
- High torque designs
- Grain Dryers; Grain Augers; Irrigation Tower Drive; Aeration Fan; Dairy Vacuum Pump; Poultry Feed Auger Drive; Metering Pump
- 115/230, 200, 230/460, 460, 575 VAC
- 50 Hz and 50/60 Hz available

Definite Purpose Motors



- TEFC, ODP Two-Speed Motors 0.5 - 250 HP (0.35 - 187 kW)
- TEFC, ODP Pressure Washer 1.5 - 5 HP (1.1 - 3.7 kW)
- Arbor Saw; Woodworking; Pre-1952 NEMA; U-Frame; Automotive Approved; Synchronous Permanent Magnet Motors
- Fan, blower, machine tool, hoist, pressure washer motors
- 50 Hz and 50/60 Hz available
- Stator and rotor sets; partial motors

Unit Handling & Conveyor Motors



- TEFC 0.5 - 7.5 HP (0.37 - 5.6 kW)
- TEFC Brake Motors 0.5 - 10 HP (0.37 - 7.5 kW)
- Short Series and High Cycle Brake motors
- Single and Three Phase
- 115/230, 200, 230/460, 460, 575 VAC
- 50 Hz and 50/60 Hz available
- Motors with shaft grounding for use with adjustable speed drives

Brake Motors



- TEFC 0.25 - 30 HP (0.18 - 22.4 kW)
- ODP 0.5 - 15 HP (0.37 - 11.2 kW)
- Explosion Proof; Washdown Brake Motors
- Single and Three Phase
- 115/230, 200, 230/460, 460, 575 VAC
- 50 Hz and 50/60 Hz available
- AC Brake Ratings available up through 1,000 ft. lbs.

IEC Frame Motors



- TEFC 0.16 - 500 HP (0.12 - 370 kW)
- 60 Hz – TEFC .025 - 2 HP (0.18 - 1.5 kW) 230/460, 575 VAC, EISA & NRCan compliant
- 50 Hz – TEFC 5 - 500 HP (3.7 - 370 kW) 230/400, 400/690 VAC, IE3 or IE2
- 50 Hz – TENV & TEFC 0.5 - 2 HP (0.37 - 1.5 kW) SSE Encapsulated Stainless Washdown 230/400 VAC, IE3
- ATEX IEC Ex Non-Sparking 0.75 - 125 HP (0.55 - 90 kW)
- ATEX IEC Ex Flameproof 0.75 - 40 HP (0.55 - 30 kW)
- 230/400 and 400 VAC 50 Hz, 460VAC 60 Hz

Inverter / Vector Motors



- TENV & TEBC 0.33 - 1500 HP (0.25 - 1120 kW) – with or without feedback
- TEFC V*S Master 0.33 - 1500 HP (0.25 - 1120 kW) – with or without feedback
- Washdown motors 0.5 - 10 HP (0.37 - 7.5 kW) – with and without feedback
- Explosion Proof 0.5 - 75 HP (0.37 - 56 kW)

Inverter / Vector Motors – Laminated Frame



- TENV & TEBC 5 - 1200 HP (3.7 - 900 kW) – with or without feedback
- Interior Permanent Magnet 10 - 1500 HP (7.5 - 1120 kW)
- Custom NEMA and IEC motors available

AC Brushless Servo Motors



- IEC & Nema mounting available
- Acceleration torques from 16 Lb-In (1.8 N-m) to 3186 Lb-In (360 N-m)
- High output torque at low speed – continuous 4 Lb-In (0.4 N-m) to 1062 Lb-In (120 N-m)
- Inertia range .00006 - .57 Lb-In-s² (.067 - 644 Kg-cm²)
- Standard windings for 160, 300, 650 bus volts- customs available
- Feedback and Brake options available

AC Drives



- Micro Drives 0.5 - 60 HP (1.25 - 88 amps)
- Inverter / Encoderless Vector Drive 1 - 500 HP (2.7 - 590 amps)
- Washdown UL Type 4X Drives 0.5 - 10 HP (2.3 - 18 amps)
- Braking resistor kits
- Line and Load Reactors

AC Soft Starters – Dynamic Brakes



- 208 - 575 VAC, 30 - 1040 Amps
- Open Starter
- NEMA 12/4 Combination Starter with Disconnect
- NEMA 12/4 Combination Starter with Circuit Breaker Disconnect
- Severe Duty NEMA 4 Combination Starter with Circuit Breaker Disconnect
- Accessories - External MOV, Remote Keypad with Cable
- Multipurpose Dynamic Brake 5 - 600 HP (3.7 - 448 kW)

DC Motors – Permanent Magnet



- General purpose Motors 0.02 - 5 HP (0.015 - 3.7 kW)
- General purpose Motors with Integral Tach 0.25 - 5 HP (0.18 - 3.7 kW)
- General purpose Explosion Proof motors 0.25 - 1.5 HP (0.18 - 1.1 kW)
- General purpose Washdown motors 0.25 - 5 HP (0.18 - 3.7 kW)
- 12 - 24 VDC PMDC motors 0.25 - 1 HP (0.18 - 0.75 kW)
- NEMA or IEC mounting available
- 90 or 180 VDC for 1PH Control

DC Motors – Wound Field



- Fractional HP Wound Field 0.25 - 3 HP (0.18 - 2.2 kW)
- Integral HP Wound Field motors 0.25 - 500 HP (0.18 - 370 kW)
- Integral HP Laminated Frame Wound Field motors 3 - 3000 HP (2.2 - 2240 kW)
- Explosion Proof motors 0.5 - 40 HP (0.37 - 30 kW)
- 115 or 230 VDC Power Motors 0.33 - 1.5 HP (0.25 - 1.1 kW)
- 90 or 180 VDC for 1PH Control, 240, 500 or 700 VDC for 3PH Control
- TENV, TEFC TEDC, DPFG, DPBV Enclosures
- DC tachometers and feedback devices
- IEC laminated frame wound field motors 27 - 1300 kW

DC Drives



- Single phase chassis and NEMA 4X drives
- Three phase chassis drives

Motor Accessories



- C-Face and D-Flange Kits
- Double C-Face Brake Kits
- Drip Covers (Canopy) for Field Conversion
- Cast Iron Fan Covers and Conduit Boxes
- Adjustable Motor Bases
- Conversion Bases (T-frame to U-frame)

Grinders & Buffers



- Industrial Grinders 6 - 14" wheels
- Industrial Buffers 6 - 14" wheels
- Industrial Abrasive Belt Sanders
- Diamond or Carbide Tool Grinders
- Accessories – Pedestal Stands; Dust Control Units; Grinding Wheels; Polishing Pads; Lighted Eye Shields
- Polishing Lathes; Chucks for Dental and Lapidary Usage

Gearmotors & Speed Reducers



- AC and DC Gearmotors
- Right Angle Gearmotors
- Inline Helical Gearmotors
- Parallel Shaft Gearmotors
- Right Angle Speed Reducers
- Washdown and Stainless Steel Right Angle Speed Reducers
- AC and DC Pre-Selected and Assembled Motor and Gearbox Combinations

Dodge Power Transmission - Gearing Products



- Torque Arm Shaft Mount Reducer
- Tigear 2 Single Reduction Right Angle Speed Reducer
- Quantis – Inline Helical, Motorized Shaft Mount or Right-Angle Helical-Bevel
- MagnaGear XTR Reducers 100,000 to 920,000 in-lbs (11,298 to 103,946 nM)
- Concentric Speed Reducers
- Controlled Start Transmission

Dodge Power Transmission



- Sheaves, Pulleys and Sprockets
- Couplings
- Clutches and Brakes
- Conveyor Components, Pulleys and Drum Assemblies

Dodge Bearings



- Bearings – Mounted Ball Bearings, Tapered & Spherical Roller Bearings, Sleeve Bearings, Take-Up Frames

Maska Sheaves, Pulleys & Sprockets



- Sheaves, Pulleys and Sprockets

Mod Express



- Common modifications performed in our Fort Smith, AR center to in-stock motors for 2 - 5 day delivery on small quantity orders

ABB Services



- ABB LEAP (Life Expectancy Analysis Program)
- ABB MACHsense-R – Remote Condition Monitoring Service
- Engineering and Consulting Services - Upgrades
- Spare Parts

Contact your nearest Baldor District Office at these World Wide locations or visit www.baldor.com

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