

# PRODUCT OVERVIEW



**BALDOR**<sup>®</sup>

A MEMBER OF THE ABB GROUP

## Small Motor Rule Motors



- Compliant with DOE Small Motor Rule 2010
- Single Phase, Open Drip Proof ¼ - 3 HP (0.19 – 1.49 kW)
- Three Phase, Open Drip Proof ¼ - 3 HP (0.19 – 2.24 kW)

## 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

## 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

## Washdown Duty Motors



- TENV & TEFC 1/4 - 20 HP (0.18 - 15 kW)
- 200, 230/460, 460, 575 VAC
- Standard mounting and C-face – with and without base
- White washdown, paint-free, stainless and SSE Encapsulated stainless designs
- Feather pickers
- 56J and Close-Coupled pump models available
- Custom IEC available
- 50 Hz and 50/60 Hz available

## Farm Duty Motors



- Single and Three Phase
- High torque designs
- Premium efficient 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 1/2 - 250 HP (0.35 - 187 kW)
- TEFC, ODP Pressure Washer 1 1/2 - 5 HP (1.1 - 3.7 kW)
- Arbor Saw; Woodworking; Pre-1952 NEMA; U-Frame; Automotive Duty; 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 1/2 - 7 1/2 HP (0.37 - 5.6 kW)
- TEFC Brake Motors 1/2 - 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 1/4 - 30 HP (0.18 - 22.4 kW)
- ODP 1/2 - 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.

## Large AC GPM Induction Motors



- Totally Enclosed Fan Cooled
- 250 – 1500 HP (186.42 – 1118.55 kW)
- 460, 575, 2300/4000 Volt
- 2-8 Pole, Three Phase, 60 Hz.
- Suitable for use on VFD 2:1 CT, 10:1 VT
- 1.15 S.F. on Sine Wave and 1.0 S.F. on VFD
- CSA approved

## Large AC Induction Motors



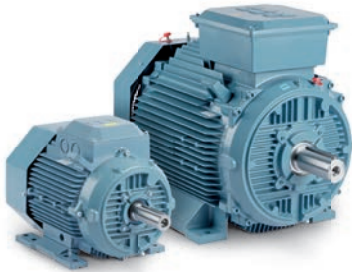
- TEFC, TEAAC & TEWAC, ODP, WPI, WPII to 30,000 HP (23 MW)
- Low (to 690 VAC), Medium Voltage (to 6900 VAC), High voltage (to 13.2 kV)
- Vertical and horizontal mounting // 50 and 60 Hz
- NEMA, IEC, CSA, BS, ANSI, API 541, API 547
- ATEX, IEC Ex, UL, CSA, TR CU, hazardous area certificates available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

## IEC Frame Motors



- IC411, IC416, IC71W, IC06 & IC410 (others on request)
- 0.08 – 1340Hp (0.06 – 1,000kW)
- 2 – 12 poles (others on request)
- B3, B5, B14, B35, B34 for horizontal or vertical mounting
- Available 50Hz voltages 230, 400, 380, 415, 690V
- Available 60Hz voltages 208, 230, 460, 690V
- Cast Iron, Die Cast aluminum, rolled steel
- IE1, IE2, IE3, IE4 efficiency
- Efficiency labels or nameplate markings for Australia/New Zealand, Brazil, Canada, China, Europe, Korea, Switzerland, Turkey & USA available for many ratings
- Motors for explosive atmospheres, ATEX/IECEx certified ExnA, Exd, Exde, Ext
- ATEX certified Exe
- Essential or non-essential certifications for Marine societies (ABS, BV, DNV, LR, GL, RINA & more)
- Specialty motors traction, brake, high ambient, smoke evacuation, water cooled
- Motors for use with VFD: Permanent magnet, High speed, synchronous reluctance, High dynamic performance, roller table

## 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



## Aggregate Duty Motors



- Crusher Duty: 5 to 350 HP
- Crusher Duty Motors are marked with inverter speed range
- Base Speed: 1200 and 1800 RPM
- Efficiency: NEMA Premium® per table (12-12)
- High torque design
- Oversize ball bearing up thru 320 frame
- 360 frame and larger available in roller and ball bearing designs
- Quarry Duty; high torque designs

## 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 available
- Severe Duty Motors are marked for Division 2 / Zone 2, Class 1 locations
- IEEE Std. 841-2009
- Severe Duty and motors marked with inverter speed range
- Design D (High slip) Oil Field Pump Motors 3 - 150 HP (2.2 - 112 kW)

## Explosion Proof Motors



- TENV & TEFC 1/4 - 800 HP (0.18 - 600 kW)
- Division 1, 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 available
- 50/60 Hz, 50 Hz available
- ATEX and IEC Ex certifications available

## Gearmotors & Speed Reducers



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

## 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)

## Inverter / Vector Motors



- TENV & TEBC 1/3 - 1500 HP (0.25 - 1120 kW) – with or without feedback
- TEFC V\*S Master 1/3 - 1500 HP (0.25 - 1120 kW) – with or without feedback
- Washdown motors 1/2 - 10 HP (0.37 - 7.5 kW) – with and without feedback
- Explosion Proof 1/2 - 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
- TENV 2 – 100 HP (1.5 – 75 kW) with or without feedback
- TEFC 7 1/2 – 200 HP (5.6 – 150 kW) with or without feedback
- TEBC 5 – 500 HP (3.7 – 372 kW) with or without feedback
- DPV 5 – 1,200 HP (3.7 – 745 kW) with or without feedback

## Direct Drive Cooling Tower Motors



- TEAO 5 1/2 – 220 kW (7.5 – 350 hp)
- Custom Voltages available from 200V through 690V
- High Efficiency Interior Permanent Magnet Design
- Unique Direct Drive Technology eliminates CT Gearbox
- 90 to 650 RPM
- Requires ABB ACS880+N5350 Cooling Tower Drive

## AC Drives



- General Purpose Drives: 0.75 – 550HP (3.3 – 645 amps)
- 230V (1 & 3 phase), 460V, and 600V
- Encoderless and closed-loop vector motor control
- UL Type 1 (NEMA 1) and UL Type 12 (NEMA 12) enclosures
- Machinery and Micro Drives: 0.25 – 30 HP (1.4 – 44 amps)
- 1-phase: 115V & 230V input (230V output)
- 3-phase: 230V, 460V, & 600V
- V/Hz and Sensorless Vector motor control
- UL Type 0 (NEMA Open) and UL Type 4X (NEMA 4X) enclosures

## 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 1/50 - 5 HP (0.015 - 3.7 kW)
- General purpose Motors with Integral Tach 1/4 - 5 HP (0.18 - 3.7 kW)
- General purpose Explosion Proof motors 1/4 - 1.5 HP (0.18 - 1.1 kW)
- General purpose Washdown motors 1/4 - 5 HP (0.18 - 3.7 kW)
- 12 - 24 VDC PMDC motors 1/4 - 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 1/4 - 3 HP (0.18 - 2.2 kW)
- Integral HP Wound Field motors 1/4 - 500 HP (0.18 - 370 kW)
- Integral HP Laminated Frame Wound Field motors 3 - 3000 HP (2.2 - 2240 kW)
- Explosion Proof motors 1/2 - 40 HP (0.37 - 30 kW)
- 115 or 230 VDC Power Motors 1/3 - 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, DPF, DPBV Enclosures
- DC tachometers and feedback devices
- IEC laminated frame wound field motors 27 - 1300 kW

## DC Drives



- 1/100 – 5 HP, Permanent magnet or shunt wound DC motors
- 115 Vac & 230 Vac, 1-phase input (5.0 – 38 amps)
- 90 Vdc & 180 Vdc, armature output (3.5 – 25 amps)
- 200/100/50 Vdc, field supply
- Chassis mount, NEMA 1, or NEMA 4X enclosures

### DC Panel Drives

- 10 – 600 HP at 230 & 480 V, 3 Phase
- Space efficient multilevel panel
- Direct replacement for Flexpak® 3000 DC Drive
- UL listed with 65 kA SCCR

## AC Brushless Servo Motors



- IEC & NEMA mounting available
- Acceleration torques from 16 lb-in (1.8 Nm) to 3186 lb-in (360 Nm)
- High output torque at low speed – continuous 4 lb-in (0.4 Nm) to 1062 lb-in (120 Nm)
- Inertia range .00006 - .57 lb-in-s<sup>2</sup> (.067 - 644 Kg-cm<sup>2</sup>)
- Standard windings for 160, 300, 650 bus volts - customs available
- Feedback and Brake options available

## 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](http://www.baldor.com)

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