

PRODUCT OVERVIEW



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 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 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 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.

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



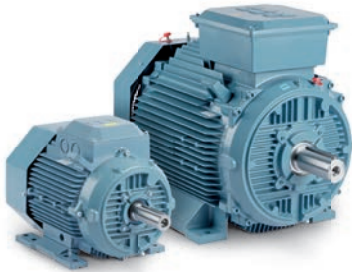
- TEFC, TEAAC & TEWAC, ODP, WPI, WPII to 30,000 HP (23 MW)
- Low (to 690 VAC), Medium Voltage (to 6900 VAC), High voltage (to 13.2 kV)
- Vertical and horizontal mounting // 50 and 60 Hz
- NEMA, IEC, CSA, BS, ANSI, API 541, API 547
- ATEX, IEC Ex, UL, CSA, TR CU, hazardous area certificates available
- 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 for Division 2 / Zone 2, Class 1 locations
- Base Speed: 1200 and 1800 RPM
- Efficiency: NEMA Premium® per table (12-12)
- High torque design
- Quarry Duty; high torque designs
- Crusher Duty Motors are marked for Division 2 / Zone 2, Class 1 locations

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 3 - 150 HP (2.2 - 112 kW)
- 50 Hz and 50/60 Hz available
- Severe Duty Motors are marked for Division 2 / Zone 2, Class 1 locations

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
- 50 Hz and 50/60 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 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
- TENV 2 – 100 HP (1.5 – 75 kW) with or without feedback
- TEFC 7.5 – 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 5.5 – 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 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, 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-s² (.067 - 644 Kg-cm²)
- 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

UNITED STATES

ARIZONA

PHOENIX
4211 S 43RD PLACE
PHOENIX, AZ 85040
PHONE: 602-470-0407
FAX: 602-470-0464

ARKANSAS

CLARKSVILLE
706 WEST MAIN STREET
CLARKSVILLE, AR 72830
PHONE: 479-754-9108
FAX: 479-754-9205

CALIFORNIA

LOS ANGELES
6480 FLOTILLA STREET
COMMERCE, CA 90040
PHONE: 323-724-6771
FAX: 323-721-5859

HAYWARD

21056 FORBES STREET
HAYWARD, CA 94545
PHONE: 510-785-9900
FAX: 510-785-9910

COLORADO

DENVER
3855 FOREST STREET
DENVER, CO 80207
PHONE: 303-623-0127
FAX: 303-595-3772

CONNECTICUT

WALLINGFORD
65 SOUTH TURNPIKE ROAD
WALLINGFORD, CT 06492
PHONE: 203-269-1354
FAX: 203-269-5485

FLORIDA

**TAMPA/PUERTO RICO/
VIRGIN ISLANDS**
3906 EAST 11TH AVENUE
TAMPA, FL 33605
PHONE: 813-248-5078
FAX: 813-241-9514

GEORGIA

ATLANTA
62 TECHNOLOGY DRIVE
ALPHARETTA, GA 30005
PHONE: 770-772-7000
FAX: 770-772-7200

ILLINOIS

CHICAGO
340 REMINGTON BLVD.
BOLINGBROOK, IL 60440
PHONE: 630-296-1400
FAX: 630-226-9420

INDIANA

INDIANAPOLIS
5525 W. MINNESOTA STREET
INDIANAPOLIS, IN 46241
PHONE: 317-246-5100
FAX: 317-246-5110

IOWA

DES MOINES
1943 HULL AVENUE
DES MOINES, IA 50313
PHONE: 515-263-6929
FAX: 515-263-6515

MARYLAND

BALTIMORE
7071A DORSEY RUN RD
ELKRIDGE, MD 21075
PHONE: 410-579-2135
FAX: 410-579-2677

MASSACHUSETTS

BOSTON
6 PULLMAN STREET
WORCESTER, MA 01606
PHONE: 508-854-0708
FAX: 508-854-0291

MICHIGAN

DETROIT
5993 PROGRESS DRIVE
STERLING HEIGHTS, MI 48312
PHONE: 586-978-9800
FAX: 586-978-9969

MINNESOTA

MINNEAPOLIS
13098 GEORGE WEBER DR, SUITE 400
ROGERS, MN 55374
PHONE: 763-428-3633
FAX: 763-428-4551

MISSOURI

ST LOUIS
13678 LAKEFRONT DRIVE
EARTH CITY, MO 63045
PHONE: 314-373-3032
FAX: 314-373-3038

KANSAS CITY

9810 INDUSTRIAL BLVD.
LENEXA, KS 66215
PHONE: 816-587-0272
FAX: 816-587-3735

NEW YORK

AUBURN
ONE ELLIS DRIVE
AUBURN, NY 13021
PHONE: 315-255-3403
FAX: 315-253-9923

NORTH CAROLINA

GREENSBORO
1220 ROTHERWOOD ROAD
GREENSBORO, NC 27406
PHONE: 336-272-6104
FAX: 336-273-6628

OHIO

CINCINNATI
2929 CRESCENTVILLE ROAD
WEST CHESTER, OH 45069
PHONE: 513-771-2600
FAX: 513-772-2219

CLEVELAND

8929 FREEWAY DRIVE
MACEDONIA, OH 44056
PHONE: 330-468-4777
FAX: 330-468-4778

OKLAHOMA

TULSA
9925 EAST ADMIRAL PLACE
TULSA, OK 74116
PHONE: 918-366-9320
FAX: 918-366-9338

OREGON

PORTLAND
16201 SE 98TH AVENUE
CLACKAMAS, OR 97015
PHONE: 503-691-9010
FAX: 503-691-9012

PENNSYLVANIA

PHILADELPHIA
103 CENTRAL AVENUE
SUITE 400B
MOUNT LAUREL, NJ 08054
PHONE: 856-840-8011
FAX: 856-840-0811

PENNSYLVANIA (CONT)

PITTSBURGH
159 PROMINENCE DRIVE
NEW KENSINGTON, PA 15068
PHONE: 724-889-0092
FAX: 724-889-0094

TENNESSEE

MEMPHIS
4000 WINCHESTER ROAD
MEMPHIS, TN 38118
PHONE: 901-365-2020
FAX: 901-365-3914

TEXAS

DALLAS
2920 114TH STREET SUITE 100
GRAND PRAIRIE, TX 75050
PHONE: 214-634-7271
FAX: 214-634-8874

HOUSTON

10355 W. LITTLE YORK ROAD
SUITE 300
HOUSTON, TX 77041
PHONE: 281-977-6500
FAX: 281-977-6510

UTAH

SALT LAKE CITY
2230 SOUTH MAIN STREET
SALT LAKE CITY, UT 84115
PHONE: 801-832-0127
FAX: 801-832-8911

WISCONSIN

MILWAUKEE
1960 SOUTH CALHOUN ROAD
NEW BERLIN, WI 53151
PHONE: 262-784-5940
FAX: 262-784-1215

INTERNATIONAL SALES

FORT SMITH, AR
P.O. BOX 2400
FORT SMITH, AR 72902
PHONE: 479-646-4711
FAX: 479-648-5895

BALDOR

A MEMBER OF THE ABB GROUP

Baldor Electric Company

P.O. Box 2400 • Fort Smith, AR 72902-2400 U.S.A. • Ph (479) 646-4711

www.baldor.com