

Subfractional Hp Permanent Magnet DC Motors and Gearmotors

In addition to our larger DC motors, Baldor has a complete line of subfractional permanent magnet DC motors – alone or with either right angle or parallel shaft gear reduction. Both in SCR-Rated and low voltage designs.

A wide variety of styles and mounting configurations of right angle gearmotors cover the range from 1/50 to 1/2 horsepower. Sealed gearbox housings with lifetime lubrication allow mounting in any position*. Their compact design and broad selection of speeds make these units ideal for direct coupling to the load. In many cases, additional equipment such as chain and sprockets can be eliminated. These units are well suited for all types of conveyORIZED equipment, mixers, feeders, gate and door operators and many other applications.

Standardized mountings and optional bases make parallel shaft gearmotors ideal for original equipment as well as replacement applications. These compact efficient gearmotors provide high output torque in a small package. They are well suited to many applications such as all types of conveyORIZED equipment, food processing, printing and packaging machines.



Subfractional HP Motors
1/100 - 1/4 HP



Right Angle Gearmotors Output
Torques to 250 lb-in



Parallel Shaft Gearmotors Output
Torques to 400 lb-in



Low Voltage
1/50 - 1/4 HP

NOTE: * Vertical motor below gearhead is not recommended. Avoiding this position will provide greater protection against oil leakage back into the motor. Contact Baldor if this position cannot be avoided.

Baldor's Family of Wound Field DC Motors

Baldor also makes a wide variety of wound field DC motors. These range from a 48 frame 1/8 HP motor to a large B1610AT frame rated at 3000 HP. We know that some customers still prefer the reliable Baldor wound field motors that have been available for over 75 years. Baldor continues to expand our product range so we can be your primary supplier of DC motors and drives.

Low voltage Baldor wound field motors are available with either a series or compound wound field. Special designs are available for traction applications or hydraulic pumps. Power motors are designed for operation from a generator or batteries.



**TEFC 1/8-75 HP,
TEAO 5-100 HP
TEUC 15-500 HP**

**180 Volt Armature – 100/200 Volt Field
240 or 500 Volt Armature – 150/300 Volt Field**



**Explosion Proof
1/2 - 3 HP
180 Volt Armature
100/200 Volt Field**



**DPFG 1-250 HP
DPBV 1-500 HP**

**180 Volt Armature - 100/200 Volt Field
240 or 500 Volt Armature - 150/300 Volt Field**



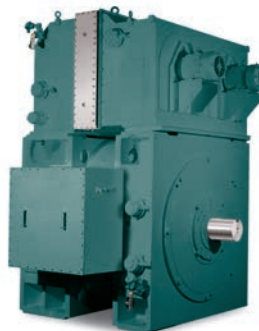
**Metric Face or Flange
.09-370 kW, 1/8 - 500 HP
Choice of Voltages to
Meet Most Applications**



**RPMIII
DPFG 1-250 HP
DPG-FV 1-500 HP
180, 240 or 500 Volt Armature**



**RPMIII
TEFC 2-75 HP
TENV 1-40 HP
180, 240 or 500 Volt Armature**



**Super RPM
DPG-FV 600-3000 HP
TEDC 600-3000 HP
500, 600, 700 Volt Armature**



**DMI IEC
IC06, IC17, IC37,
IC86W, IC666
27-1300 kW
400-815 Volt Armature
Choice of field voltage**

Performance Data

TENV & TEFC Shunt Wound DC Motors

| HP | RPM | NEMA Frame | Enclosure | Catalog Number | Arm / Fld Volts | F.L. Amperage Arm / Fld Hi/Lo | Rated Torq. lb-ft |
|-------|------|------------|-----------|----------------|-----------------|----------------------------------|----------------------|
| 1/4 | 1750 | 56C | TEFC | CD3425 | 90 100/ 50 | 3.0 0.3/0.6 | 0.75 |
| 1/3 | 1750 | 56C | TEFC | CD3433 | 90 100/ 50 | 3.4 0.4/0.8 | 1.0 |
| | 1750 | 56C | TEFC | CD3434 | 180 200/100 | 1.9 0.21/0.42 | 1.0 |
| | 1750 | 56C | TEFC | CD5333 | 90 100/ 50 | 3.7 0.5/1.0 | 1.0 |
| | 1750 | 56C | TEFC | CD3450 | 90 100/ 50 | 5.2 0.5/1.0 | 1.5 |
| 1/2 | 1750 | 56C | TEFC | CD3451 | 180 200/100 | 2.6 0.25/0.5 | 1.5 |
| | 1750 | 56C | TEFC | CD5350 | 90 100/ 50 | 5.0 0.44/0.88 | 1.5 |
| | 1750 | 56C | TEFC | CD3475 | 90 100/ 50 | 7.8 0.6/1.2 | 2.25 |
| 3/4 | 1750 | 56C | TEFC | CD3476 | 180 200/100 | 3.9 0.3/0.6 | 2.25 |
| | 1750 | 56C | TEFC | CD5375 | 90 100/ 50 | 8.0 0.6/1.2 | 2.25 |
| | 1750 | 56C | TEFC | CD5319 | 90 100/ 50 | 10.0 0.6/1.2 | 3.0 |
| 1 | 1750 | 56C | TEFC | CD5318 | 180 200/100 | 5.0 0.3/0.6 | 3.0 |
| | 1750 | 184C | TEFC | CD6219 | 90 100/ 50 | 9.6 0.55/1.1 | 3.0 |
| | 1750 | 184C | TEFC | CD6218 | 180 200/100 | 5.0 0.25/0.5 | 3.0 |
| | 1750 | 184C | TEFC | CD6215 | 180 200/100 | 7.5 0.25/0.5 | 4.5 |
| 1-1/2 | 1750 | 184C | TEFC | CD6202 | 180 200/100 | 9.5 0.4/0.8 | 6.0 |
| | 1750 | 213C | TEFC | CD7502 | 180 200/100 | 9.5 0.3/0.6 | 6.0 |
| 3 | 1750 | 184TC | TEFC | CD6203 | 180 200/100 | 14.7 0.6/1.2 | 9.0 |
| | 1750 | 215C | TEFC | CD7503 | 180 200/100 | 14.7 0.4/0.8 | 9.0 |

Explosion Proof Wound Field Motors

| | | | | | | | |
|-------|------|-------|------|---------|-------------|--------------|------|
| 1/2 | 1750 | 182CZ | TEFC | CDX1850 | 90 100/50 | 4.9 0.55/1.1 | 1.5 |
| 3/4 | 1750 | 182CZ | TEFC | CDX1875 | 90 100/50 | 7.0 0.55/1.1 | 2.25 |
| 1 | 1750 | 182CZ | TEFC | CDX2001 | 180 200/100 | 5.0 0.25/0.5 | 3.0 |
| | 1750 | 182C | TEFC | CDX7100 | 180 200/100 | 5.0 0.25/0.5 | 3.0 |
| 1-1/2 | 1750 | 184C | TEFC | CDX7150 | 180 200/100 | 7.5 0.25/0.5 | 4.5 |
| 2 | 1750 | 184C | TEFC | CDX7200 | 180 200/100 | 9.5 0.4/0.8 | 6.0 |