

# PMDC motors & gearmotors

## CHARACTERISTICS

- Straight line speed-torque curve
- Totally enclosed construction
- High power density
- High starting torque
- 2000+ hours of brush life
- No control required to operate

## CONSIDERATIONS

- Requires brush maintenance
- Cogging may occur at low speeds
- Available in brush card and replaceable brush designs



## gearbox specifications

	PARALLEL SHAFT	PLANETARY	RIGHT ANGLE	RIGHT ANGLE PLANETARY
GEARS	spur and helical	spur and helical	worm	spur and bevel
MAX INPUT SPEED	4000 rpm	4000 rpm	2800 rpm	3500 rpm
MAX OUTPUT TORQUE	322 in-lb	1062 in-lb	708 in-lb	885 in-lb
MAX EFFICIENCY	90%	95%	80%	90%
BACK DRIVABILITY	yes	yes	yes (below 30:1 ratio)	yes
GEAR RATIOS	5:1 - 320:1	5:1 - 1000:1	5:1 - 100:1	5:1 - 1000:1

\*Numbers based on optimal gear life at continuous duty



DC motors are available in replaceable brush and brush card designs.

LOW NOISE



LOW MAINTENANCE



LIFE



SPEED REGULATION



## motor only specifications

frame size

60

Voltage	Speed (RPM)	Power (hp)	Torque (lb-in)
12	350 - 4000	0.01 - 0.07	1.1 - 2.3
24	1000 - 6000	0.03 - 0.13	1.0 - 2.3
90	1000 - 5000	0.03 - 0.13	1.1 - 2.2
115 FWR	1000 - 5000	0.03 - 0.09	0.6 - 1.6
130	2000 - 6000	0.05 - 0.14	1.2 - 2.2
180	2000 - 6000	0.07 - 0.12	1.0 - 2.0

frame size

80

Voltage	Speed (RPM)	Power (hp)	Torque (lb-in)
12	1000 - 5000	0.07 - 0.21	2.1 - 6.8
24	1000 - 6000	0.14 - 0.34	2.4 - 7.2
90	1000 - 6000	0.07 - 0.31	3.2 - 7.7
115 FWR	1000 - 6000	0.07 - 0.24	0.8 - 6.4
130	1000 - 6000	0.08 - 0.45	2.8 - 7.4
180	1000 - 5500	0.07 - 0.44	2.8 - 7.2

frame size

108

Voltage	Speed (RPM)	Power (hp)	Torque (lb-in)
12	500 - 4000	0.10 - 0.21	1.8 - 12.0
24	1000 - 5500	0.17 - 0.42	3.3 - 13.0
90	500 - 4000	0.11 - 0.43	4.7 - 13.5
115 FWR	1000 - 5000	0.11 - 0.29	2.9 - 11.8
130	1000 - 5500	0.16 - 0.46	3.2 - 13.0
180	1000 - 6000	0.25 - 0.52	2.3 - 12.9

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