

FEATURES

- **DC Brush Planetary Gearmotor**
- **Operates with 12V and 24V DC Input**
- **Designed for High Volume Applications**
- **Up to 41.66 oz-in of Continuous Torque**
- **21 mm Motor Body Diameter**
- **Custom Versions are Available**



DESCRIPTION

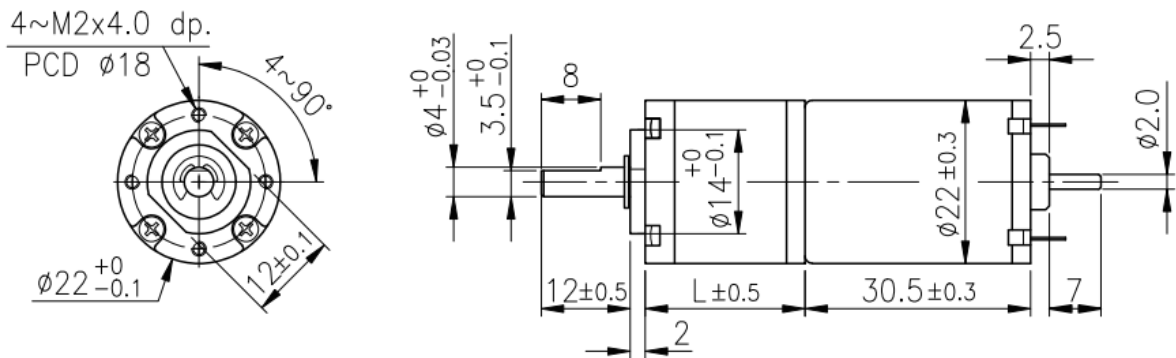
The BDPG 22 Series was designed for high volume OEM applications with low cost being the primary objective. These reliable low cost Brush DC Planetary Gearmotors come in a variety of power levels and sizes that will be sure to fit your needs. The motors are fully reversible. The BDPG 22 Series is a cost-effective solution to manage motion control in many rotary applications including medical, semiconductor, pumps, robotics, hobby, CNC, and many other applications where a low cost Brush DC Planetary Gearmotor is needed.

SPECIFICATIONS

Model #	Voltage (V)	Gear Ratio (X:1)	No Load Speed After Gearbox (RPM)	Efficiency (%)	Rated Speed (RPM)	Rated Torque (oz-in)	Peak Torque (oz-in)	Rated Current (mA)	No Load Current (mA)	Rated Output (W)	Weight (lbs)	Gearbox Length (L) (mm)
BDPG-22-31-12V-6000-R4	12	4	1500	80%	1000	1.39	8.61	≤240	≤80	1.52	0.15	14.40
BDPG-22-31-12V-6000-R53	12	53	113	60%	90	13.47	83.32	≤240	≤80	1.52	0.17	21.70
BDPG-22-31-12V-6000-R84	12	84	71.43	60%	56	20.83	83.32	≤240	≤80	1.52	0.17	21.70
BDPG-22-31-12V-6000-R270	12	270	22.22	50%	18	34.72	104.16	≤240	≤80	1.52	0.23	25.35
BDPG-22-31-12V-6000-R742	12	742	8.09	40%	7.3	41.66	124.98	≤240	≤80	1.52	0.24	29.00
BDPG-22-31-12V-6000-R1996	12	1996	3.01	40%	2.7	41.66	124.98	≤240	≤80	1.52	0.24	29.00
BDPG-22-31-24V-6000-R4	24	4	1500	80%	1000	1.67	10	≤145	≤55	1.79	0.15	14.40
BDPG-22-31-24V-6000-R53	24	53	113	60%	89	15.97	83.33	≤145	≤55	1.79	0.17	21.70
BDPG-22-31-24V-6000-R84	24	84	71.43	60%	55	25	83.33	≤145	≤55	1.79	0.17	21.70
BDPG-22-31-24V-6000-R270	24	270	22.22	50%	18	34.72	104.16	≤145	≤55	1.79	0.23	25.35
BDPG-22-31-24V-6000-R742	24	742	8.09	40%	7.3	41.66	124.98	≤145	≤55	1.79	0.24	29.0
BDPG-22-31-24V-6000-R1996	24	1996	3.01	40%	2.7	41.66	124.98	≤145	≤55	1.79	0.24	29.0

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Housing Material:	Metal	Radial Play of Shaft:	≤ 0.08 mm
Bearing at Output:	Sleeve Bearings	Radial Load (10mm from flange):	≤ 0.8 kgf
Humidity:	20%~85% RH	Shaft Axial Load:	≤ 0.6 kgf
Backlash at No Load:	≤ 3°	Shaft Press Fit Force, Max:	≤ 5 kgf
Operating Temperature:	-10°C~+60°C	Thrust Play of Shaft:	≤ 0.2 mm



* Dimensions are in mm

Gearbox Ratio	Gearbox Length (L) (mm)
1:4	14.40
1:14, 1:16, 1:19	18.05
1:53, 1:62, 1:72, 1:84, 1:104	21.70
1:198, 1:231, 1:270, 1:316, 1:370, 1:455	25.35
1:742, 1:1014, 1:1249, 1:1621, 1:1996	29.00