

BDPG-38-86-Series



FEATURES

- **DC Brush Planetary Gearmotor**
- **Designed for High Volume Applications**
- **Up to 416.62 oz-in of Continuous Torque**
- **38 mm Motor Body Diameter**



DESCRIPTION

The BDPG-38-86 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 variety of power levels, sizes, and will be sure to fit your needs. The motors are fully reversible. The BDPG-38-86 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

BDPG-38-12V-3000-Rxx Types

| Motor Specs | No Load Speed (RPM) | Rated Voltage (V) | No Load Current (A) | Output Power (W) | Rated Current (A) | Stall Current (A) |
|-------------|---------------------|-------------------|---------------------|------------------|-------------------|-------------------|
| | 3000 | 12 | 0.15 | 10 | 1.3 | 4.4 |

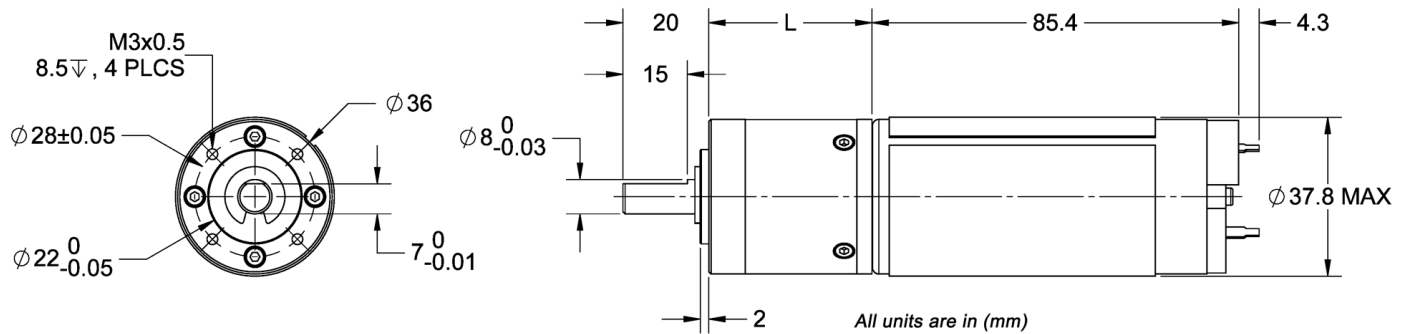
| Model # | Gear Ratio | No Load Speed (RPM) | Rated Speed (RPM) | Rate Torque (oz-in) | Peak Torque (oz-in) | Weight (lbs) | L Length (mm) |
|--------------------------|------------|---------------------|-------------------|---------------------|---------------------|--------------|---------------|
| BDPG-38-86-12V-3000-R3.7 | 3.7 | 808 | 654 | 19.44 | 94 | 1.21 | 38.0 |
| BDPG-38-86-12V-3000-R5.2 | 5.2 | 579 | 467 | 26.39 | 133 | 1.21 | 38.0 |
| BDPG-38-86-12V-3000-R14 | 14 | 214 | 172 | 69.44 | 357 | 1.21 | 38.0 |
| BDPG-38-86-12V-3000-R19 | 19 | 157 | 127 | 94.43 | 416.62 | 1.21 | 38.0 |
| BDPG-38-86-12V-3000-R27 | 27 | 111 | 89 | 134.71 | 416.62 | 1.21 | 38.0 |
| BDPG-38-86-12V-3000-R51 | 51 | 59 | 47 | 249.97 | 833.24 | 1.24 | 47.5 |
| BDPG-38-86-12V-3000-R71 | 71 | 42 | 35 | 333.30 | 833.24 | 1.24 | 47.5 |
| BDPG-38-86-12V-3000-R100 | 100 | 30 | 25 | 416.62 | 833.24 | 1.24 | 47.5 |
| BDPG-38-86-12V-3000-R139 | 139 | 21 | 20 | 416.62 | 833.24 | 1.24 | 47.5 |

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BDPG-38-24V-3000-Rxx Types

| Motor Specs | No Load Speed (RPM) | Rated Voltage (V) | No Load Current (A) | Output Power (W) | Rated Current (A) | Stall Current (A) |
|-------------|---------------------|-------------------|---------------------|------------------|-------------------|-------------------|
| | 3000 | 24 | 0.08 | 10 | 0.7 | 2.9 |

| Model # | Gear Ratio | No Load Speed (RPM) | Rated Speed (RPM) | Rate Torque (oz-in) | Peak Torque (oz-in) | Weight (lbs) | L Length (mm) |
|--------------------------|------------|---------------------|-------------------|---------------------|---------------------|--------------|---------------|
| BDPG-38-86-24V-3000-R3.7 | 3.7 | 811 | 686 | 20.94 | 115.26 | 1.21 | 38.0 |
| BDPG-38-86-24V-3000-R5.2 | 5.2 | 577 | 488 | 29.43 | 124.99 | 1.21 | 38.0 |
| BDPG-38-86-24V-3000-R14 | 14 | 214 | 181 | 79.24 | 416.62 | 1.21 | 38.0 |
| BDPG-38-86-24V-3000-R19 | 19 | 158 | 134 | 107.54 | 416.62 | 1.21 | 38.0 |
| BDPG-38-86-24V-3000-R27 | 27 | 111 | 94 | 138.87 | 416.62 | 1.21 | 38.0 |
| BDPG-38-86-24V-3000-R51 | 51 | 59 | 50 | 277.75 | 833.24 | 1.24 | 47.5 |
| BDPG-38-86-24V-3000-R71 | 71 | 42 | 36 | 277.75 | 833.24 | 1.24 | 47.5 |
| BDPG-38-86-24V-3000-R100 | 100 | 30 | 25 | 277.75 | 833.24 | 1.24 | 47.5 |
| BDPG-38-86-24V-3000-R139 | 139 | 22 | 18 | 277.75 | 833.24 | 1.24 | 47.5 |



| | | | |
|--------------------|----------------|-----------------------------|--------------|
| Housing Material: | Metal | Radial Play of Shaft: | 0.08mm |
| Bearing at Output: | Sleeve Bearing | Shaft Press Fit Force, Max: | < 33.07lbs |
| Humidity: | 90%-95% | Operating Temperature: | 14°F - 104°F |