

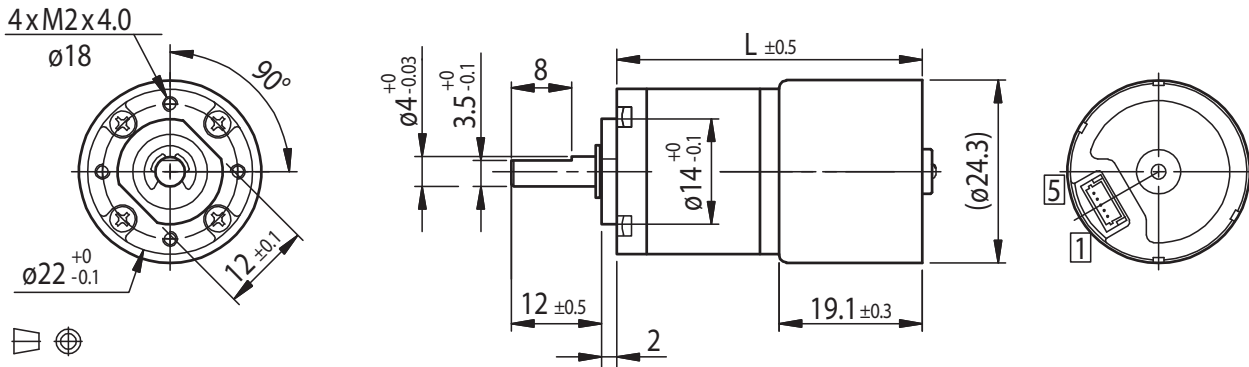
BLDC Motor with Integrated Electronics Planetary Gearbox Type PL22P-BL24.19



Gearmotor

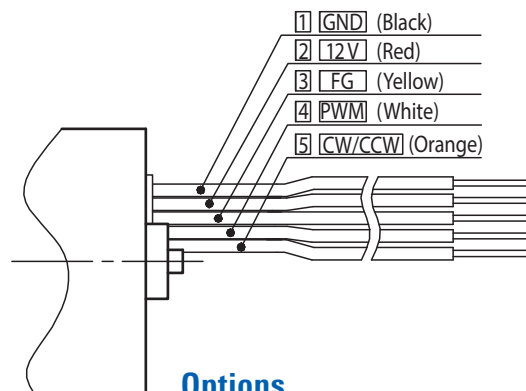
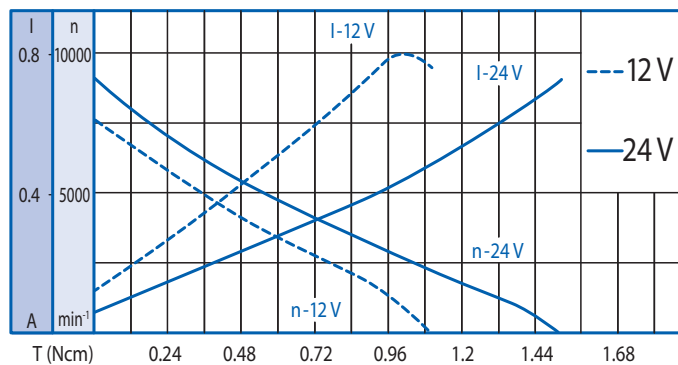
| Gear Ratio | | 4 | 14 | 16 | 19 | 53 | 62 | 72 | 84 | 104 | 198 | 231 | 270 | 316 | 370 | 455 | 742 | 1014 | 1249 | 1621 | 1996 |
|---------------|----------------------------------|------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 12V | Rated Torque (Ncm) | 1 | 2.9 | 3.5 | 4 | 9.4 | 11 | 12.9 | 15 | 17 | 20 | 20 | 20 | 20 | 20 | 20 | 25 | 25 | 25 | 25 | 25 |
| | Rated Speed (min ⁻¹) | 1200 | 380 | 320 | 275 | 100 | 85 | 74 | 63 | 51 | 28 | 25 | 22 | 18 | 16 | 13 | 8 | 6.1 | 5.1 | 4 | 3.4 |
| 24V | Rated Torque (Ncm) | 1 | 2.7 | 3.2 | 3.8 | 8.9 | 10.3 | 12 | 14 | 17 | 20 | 20 | 20 | 20 | 20 | 20 | 25 | 25 | 25 | 25 | 25 |
| | Rated Speed (min ⁻¹) | 1500 | 475 | 405 | 345 | 125 | 105 | 93 | 79 | 64 | 35 | 31 | 27 | 22.5 | 19 | 16 | 10 | 7.7 | 6.3 | 5 | 4.2 |
| Length L (mm) | | 33.5 | 37.15 | 37.15 | 37.15 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 44.45 | 44.45 | 44.45 | 44.45 | 44.45 | 44.45 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 |

Radial Load (FR): 10 N (10 mm from face mounting) | Axial Load (FA): 6 N | Net Weight max. 92 g



Motor

| Rated Voltage (V) | Rated Torque (Ncm) | Rated Speed (min ⁻¹) | Rated Current (mA) | No Load Speed (min ⁻¹) | No Load Current (mA) | Rated Power (W) | Weight (g) |
|-------------------|--------------------|----------------------------------|--------------------|------------------------------------|----------------------|-----------------|------------|
| 12 | 0.3 | 5340 | ≤ 310 | 7400 | ≤ 180 | 1.65 | 28 |
| 24 | 0.28 | 6700 | ≤ 170 | 9000 | ≤ 100 | 1.93 | 28 |



Options

| | |
|-----------|-----------------|
| Leads | Special Shaft |
| Connector | Special Voltage |

Gearbox

| No. of Stages | 4 | 14 | 16 | 19 | 53 | 62 | 72 | 84 | 104 | 198 | 231 | 270 | 316 | 370 | 455 | 742 | 1014 | 1249 | 1621 | 1996 |
|-------------------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| Max. Rated Torque (Ncm) | 8 | 13 | 13 | 13 | 17 | 17 | 17 | 17 | 17 | 20 | 20 | 20 | 20 | 20 | 20 | 25 | 25 | 25 | 25 | 25 |
| Max. Peak Torque (Ncm) | 24 | 39 | 39 | 39 | 51 | 51 | 51 | 51 | 51 | 60 | 60 | 60 | 60 | 60 | 60 | 75 | 75 | 75 | 75 | 75 |

Ball Bearing

Radial Load (FR): 12 N (10 mm from face mounting) | Axial Load (FA): 7 N