



Dimensions in mm.

| Ratio | 5 | 9 | 15 | 27 | 45 | 81 | 135 | 141 | 243 | 405 | 729 | 1215 | 2187 | |
|-------------------------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1 Number of Gear Stages | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | |
| 2 Direction of Rotation | = | = | ≠ | ≠ | = | = | ≠ | ≠ | ≠ | = | = | ≠ | ≠ | |
| 3 Efficiency | 0.81 | 0.81 | 0.73 | 0.73 | 0.65 | 0.65 | 0.59 | 0.59 | 0.59 | 0.53 | 0.53 | 0.48 | 0.48 | |
| 4 L (mm) | 10.5 | 10.5 | 13 | 13 | 15.5 | 15.5 | 18 | 18 | 18 | 20.5 | 20.5 | 23 | 23 | |
| 5 Weight | g (oz) | 7 (0.246) | 7 (0.246) | 8 (0.282) | 8 (0.282) | 9 (0.317) | 9 (0.317) | 10 (0.352) | 10 (0.352) | 10 (0.352) | 11 (0.388) | 11 (0.388) | 12 (0.423) | 12 (0.423) |

| 6 Available with Motor – L2 - Length with motor (mm) | 5 | 9 | 15 | 27 | 45 | 81 | 135 | 141 | 243 | 405 | 729 | 1215 | 2187 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 16C18 | 29.2 | 29.2 | 31.7 | 31.7 | 34.2 | 34.2 | 36.7 | 36.7 | 36.7 | 39.2 | 39.2 | 41.7 | 41.7 |
| 16N78 | 41.5 | 41.5 | 44 | 44 | 46.5 | 46.5 | 49 | 49 | 49 | 51.5 | 51.5 | 54 | 54 |
| 16G88 | 41.5 | 41.5 | 44 | 44 | 46.5 | 46.5 | 49 | 49 | 49 | 51.5 | 51.5 | 54 | 54 |
| 17S78 | 32.2 | 32.2 | 34.7 | 34.7 | 37.2 | 37.2 | 39.7 | 39.7 | 39.7 | 42.2 | 42.2 | 44.7 | 44.7 |
| 17N78 | 39.4 | 39.4 | 41.9 | 41.9 | 44.4 | 44.4 | 47.9 | 47.9 | 47.9 | 49.4 | 49.4 | 51.9 | 51.9 |
| P110 | 29.5 | 29.5 | 32 | 32 | 34.5 | 34.5 | 37 | 37 | 37 | 39.5 | 39.5 | 42 | 42 |
| 16DCP/16DCT/17DCT CB | 39.5 | 39.5 | 42 | 42 | 44.5 | 44.5 | 47 | 47 | 47 | 49.5 | 49.5 | 52 | 52 |
| 16DCP/16DCT/17DCT PM | 39 | 39 | 41.5 | 41.5 | 44 | 44 | 46.5 | 46.5 | 46.5 | 49 | 49 | 51.5 | 51.5 |

| Characteristics | 5 | B16 • 0 • | B16 2R • 0 • |
|---|------------|--------------------------|-------------------|
| 7 Shaft Bearings | | Sleeve | Ball Bearing |
| 8 Maximum Static Torque | Nm (oz-in) | 0.3 (42) | 0.3 (42) |
| 9 Maximum Radial Force @ 8mm from mounting face | N (lb) | 5 (1.1) | 10 (2.2) |
| 10 Maximum Axial Force | N (lb) | 5 (1.1) | 10 (2.2) |
| 11 Maximum Press Fit Force | N (lb) | 100 (23) | 100 (23) |
| 12 Average Backlash @ no-load | | 1.5° | 1.5° |
| 13 Average Backlash @ 0.3 Nm | | 3° | 3° |
| Shaft Play: | | | |
| 14 -radial | µm | ≤ 20 | ≤ 10 |
| 15 -axial | µm | 50-150 | ≤ 100 |
| 16 Maximum Recommended Input Speed | rpm | 8000 | 8000 |
| 17 Operating Temperature Range: | °C (°F) | -30 to +65 (-22 to +150) | |

