

34PL004

NEMA 34 Planetary Gearhead



Product Features

- *True planetary design*
- *Low backlash design*
- *High strength steels*
- *High shaft loading capacity*
- *Sealed ball bearings*
- *Heat treated gears*
- *High efficiency design*

Description

The 34PL004 planetary gearhead offers true planetary performance in a high torque, low backlash design. High strength, heated treated gears provide for efficient transmission of torque and accurate speed matching.

Specifications



| | |
|-------------------------------|----------------------------------|
| Part Number: | 34PL004 |
| Frame Size: | NEMA 34 |
| Ratio: | 4:1 |
| Torque, Nominal: | 1219 in-lb |
| Torque, Max Accel: | 1905 in-lb |
| Length: | 4.19 inches |
| Weight: | 7.0 lbs |
| Input Speed: | 6500 rpm max |
| Backlash: | 6 |
| Low Backlash: | 3 |
| Operating Temperature: | -50 to 120 °C |
| Service Life: | > 10,000 hours |
| Efficiency: | 90% |
| Inertia: | 2.833E-03 oz-in-sec ² |

Downloads



Product PDF - S3 Link:

<http://s3.amazonaws.com/applied-motion-pdf/34PL004.pdf>

2D Drawing:

 [34PL-XXX_A.pdf](#)
 [034pl1stg_3D.pdf](#)

3D Drawing:

 [34PL-1STG.stp](#)
 [34PL-1STG.zip](#)

Products in the Series *PL Gearheads*

| Part Number | Frame Size | Ratio | Length | Output Torque | Backlash | 1pc. |
|---------------------------|------------|-------|--------|---------------|----------|-----------|
| 17PL010 | NEMA 17 | 10:1 | 2.62 | 56 | 6 | \$811.00 |
| 23PL004 | NEMA 23 | 4:1 | 2.66 | 360 | 6 | \$811.00 |
| 23PL005.5 | NEMA 23 | 5.5:1 | 2.66 | 317 | 6 | \$811.00 |
| 23PL010 | NEMA 23 | 10:1 | 2.66 | 119 | 6 | \$811.00 |
| 23PL028 | NEMA 23 | 28:1 | 3.48 | 384 | 10 | \$1052.00 |
| 23PL070 | NEMA 23 | 70:1 | 3.48 | 288 | 10 | \$1052.00 |
| 23PL100 | NEMA 23 | 100:1 | 3.48 | 110 | 10 | \$1052.00 |
| 34PL004 | NEMA 34 | 4:1 | 4.19 | 1219 | 6 | \$1273.00 |
| 34PL005.5 | NEMA 34 | 5.5:1 | 4.19 | 1113 | 6 | \$1273.00 |
| 34PL010 | NEMA 34 | 10:1 | 4.19 | 552 | 6 | \$1273.00 |
| 34PL028 | NEMA 34 | 28:1 | 5.31 | 1346 | 10 | \$1589.00 |
| 34PL070 | NEMA 34 | 70:1 | 5.31 | 1027 | 10 | \$1589.00 |
| 34PL100 | NEMA 34 | 100:1 | 5.31 | 507 | 10 | \$1589.00 |