

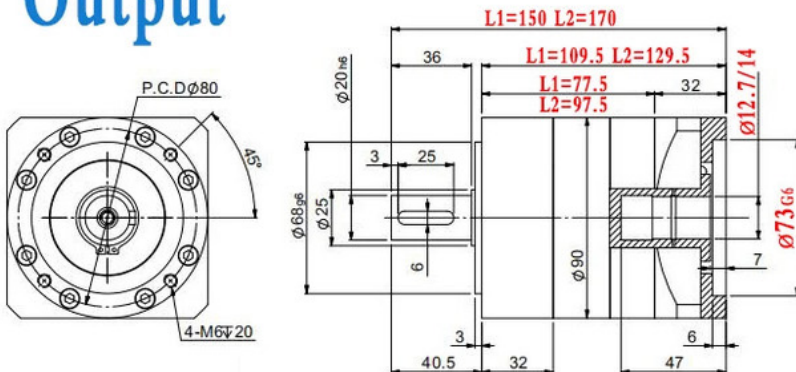
# PLE090 Series Nema 34 Planetary Gearbox Ratio 3:1 - 100:1 Parameter

| PLE 90 Gear Reducer Technical Parameters |           |                        |
|------------------------------------------|-----------|------------------------|
| Technical Parameter                      | Unit      | Value                  |
| Max Torque                               | Nm        | 1.5 Times Rated Torque |
| Instant Braking Torque                   | Nm        | 2.5 Times Rated Torque |
| Max Radial Torque                        | N         | 450                    |
| Max Axis Torque                          | N         | 430                    |
| Torsional Stiffness                      | Nm/arcmin | 4.85                   |
| Max Input Speed                          | rpm       | 6000                   |
| Rated Input Speed                        | rpm       | 3500                   |
| Noise                                    | dB        | ≤60                    |
| Average Working Life                     | h         | 20000                  |
| Full Load Efficiency                     | %         | L1≥96%, L2≥94%         |
| Backlash (L1)                            | arcmin    | ≤7                     |
| Backlash (L2)                            | arcmin    | ≤12                    |
| IP Degree                                | -         | IP65                   |
| Operation Temperature                    | °C        | 10°C-90°C              |
| Rated Output Torque (Nm)                 |           |                        |
| Stage                                    | Ratio     | Rated Output Torque    |
| L1                                       | 3:01      | 96                     |
|                                          | 4:01      | 122                    |
|                                          | 5:01      | 122                    |
|                                          | 7:01      | 95                     |
|                                          | 10:01     | 56                     |
| L2                                       | 15:01     | 96                     |
|                                          | 20:01     | 122                    |
|                                          | 25:01:00  | 122                    |
|                                          | 30:01:00  | 96                     |
|                                          | 35:01:00  | 122                    |
|                                          | 40:01:00  | 122                    |
|                                          | 50:01:00  | 122                    |
|                                          | 70:01:00  | 95                     |
|                                          | 100:01:00 | 56                     |

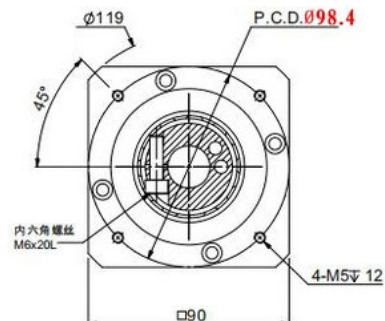
# PLE090

## 12.7/14 mm Input for Nema34 86mm Flanged Stepper Motor

## Output

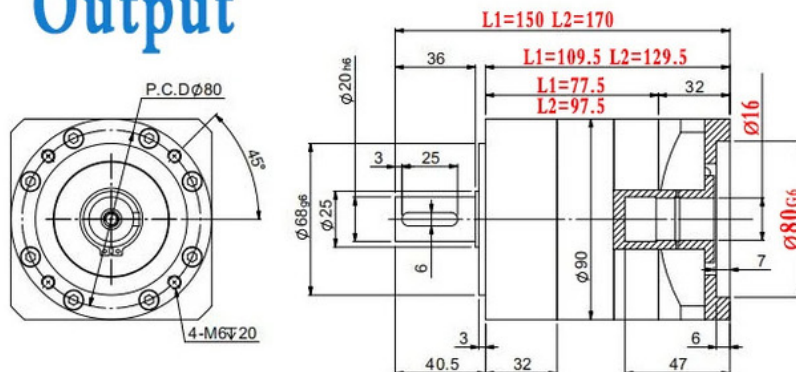


## Input

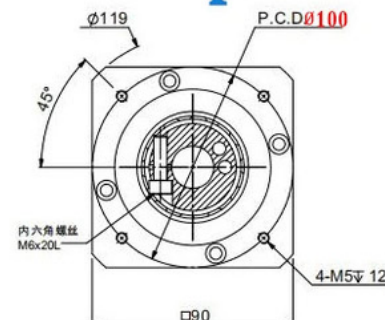


## 16mm Input for 90mm Flanged Servo Motor

## Output

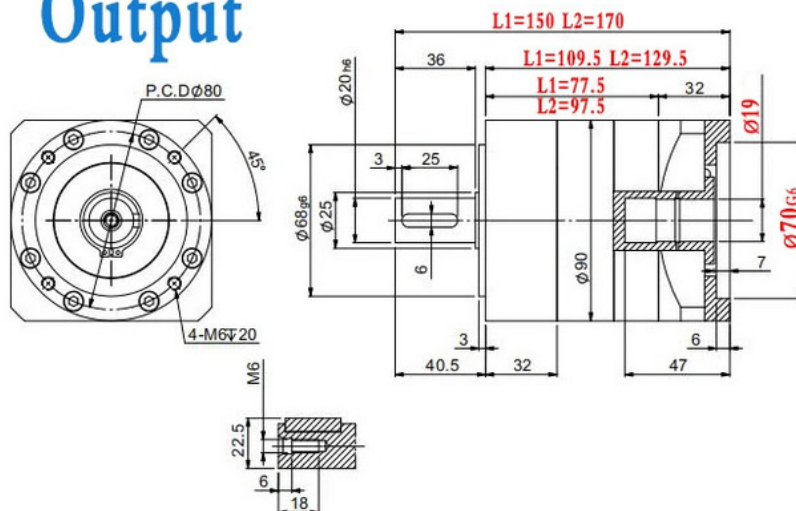


## Input

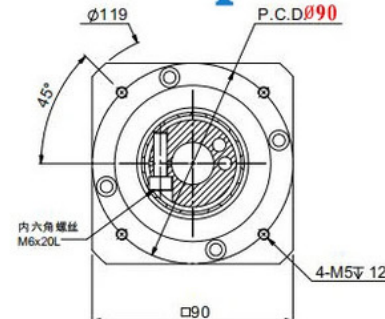


## 19mm Input for 80mm Flanged Servo Motor

## Output



## Input



## Speed Ratio



1 Stage (L1): 4:1 / 5:1 / 7:1 / 10:1

2 Stage (L2): 20:1 / 25:1 / 35:1 / 40:1 / 50:1 / 70:1 / 100:1