

PRODUCT DATASHEET

# ES-PG-C36-S006-V058

Precision Transmission Component

Ultra-Precision Planetary Gearboxes | Ultra-Precision Planetary Gearbox Series - ES-PG-C36-S006

Product Overview

Precision Transmission Component with backlash 5 / 3 / 7 arcmin, maximum Input Speed 6000 rpm and frame Size 140 mm.

Key Specifications

| PARAMETER                    | VALUE     | UNIT   |
|------------------------------|-----------|--------|
| Backlash                     | 5 / 3 / 7 | arcmin |
| Maximum Input Speed          | 6000      | rpm    |
| Frame Size                   | 140       | mm     |
| Weight                       | 15.9      | kg     |
| Compatible Servo Motor Power | 750       | W      |
| Motor Adapter Interface      | T6        |        |
| Rated Output Torque          | 450       | Nm     |
| Number of Reduction Stages   | 2         |        |
| A-Weighted Noise Level       | 65        | dB(A)  |

## Technical Specifications

| PARAMETER              | SPECIFICATION | UNIT      | NOTES                              |
|------------------------|---------------|-----------|------------------------------------|
| PERFORMANCE            |               |           |                                    |
| Backlash               | 5 / 3 / 7     | arcmin    | Varies by published configuration. |
| Rated Output Torque    | 450           | Nm        | Reduction Ratio: 100               |
| Rated Input Speed      | 3000          | rpm       | Reduction Ratio: 4~100             |
| Torsional Rigidity     | 151           | Nm/arcmin | Reduction Ratio: 4~100             |
| Permissible Axial Load | 10590         | N         | Reduction Ratio: 4~100             |
| Maximum Bending Moment | 1300          | Nm        | Reduction Ratio: 4~100             |
| MECHANICAL             |               |           |                                    |
| Frame Size             | 140           | mm        |                                    |
| Weight                 | 15.9          | kg        | Reduction Ratio: 15~100            |

# Technical Specifications

| PARAMETER                            | SPECIFICATION | UNIT  | NOTES                  |
|--------------------------------------|---------------|-------|------------------------|
| MECHANICAL                           |               |       |                        |
| Planetary Gearbox Housing Length L3  | 6             | mm    |                        |
| Planetary Gearbox Spigot Diameter D6 | 11×M8×1.25P   | mm    |                        |
| Planetary Gearbox Key Length L6      | 10            | mm    |                        |
| ENVIRONMENTAL                        |               |       |                        |
| A-Weighted Noise Level               | 65            | dB(A) | Reduction Ratio: 4~100 |
| ADDITIONAL SPECIFICATIONS            |               |       |                        |
| Maximum Input Speed                  | 6000          | rpm   | Reduction Ratio: 4~100 |
| Compatible Servo Motor Power         | 750           | W     |                        |
| Motor Adapter Interface              | T6            |       |                        |
| Number of Reduction Stages           | 2             |       |                        |

## Dimensional & Integration Overview

### Mechanical Overview

| PARAMETER                            | VALUE       | UNIT |
|--------------------------------------|-------------|------|
| Frame Size                           | 140         | mm   |
| Weight                               | 15.9        | kg   |
| Planetary Gearbox Housing Length L3  | 6           | mm   |
| Planetary Gearbox Spigot Diameter D6 | 11×M8×1.25P | mm   |
| Planetary Gearbox Key Length L6      | 10          | mm   |

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**01** Specifications are subject to change without notice. Verify the current product configuration before final design release.

**02** 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.