

PRODUCT DATASHEET

# ES-PG-C36-S009-V036

Precision Transmission Component

Ultra-Precision Planetary Gearboxes | Ultra-Precision Planetary Gearbox Series - ES-PG-C36-S009

Product Overview

Precision Transmission Component with backlash 7 / 5 arcmin, maximum Input Speed 6000 rpm and frame Size 90 mm.

Key Specifications

| PARAMETER                    | VALUE | UNIT   |
|------------------------------|-------|--------|
| Backlash                     | 7 / 5 | arcmin |
| Maximum Input Speed          | 6000  | rpm    |
| Frame Size                   | 90    | mm     |
| Weight                       | 4.1   | kg     |
| Compatible Servo Motor Power | 400   | W      |
| Motor Adapter Interface      | T2    |        |
| Rated Output Torque          | 130   | Nm     |
| Number of Reduction Stages   | 2     |        |
| A-Weighted Noise Level       | 60    | dB(A)  |

## Technical Specifications

| PARAMETER                      | SPECIFICATION | UNIT          | NOTES                                                                                       |
|--------------------------------|---------------|---------------|---------------------------------------------------------------------------------------------|
| PERFORMANCE                    |               |               |                                                                                             |
| Backlash                       | 7 / 5         | arcmin        | Precision Grade: P2; Reduction Ratio: 15 100 / Precision Grade: P1; Reduction Ratio: 15 100 |
| Rated Output Torque            | 130           | Nm            | Reduction Ratio: 15                                                                         |
| Rated Input Speed              | 3000          | rpm           | Reduction Ratio: 3 100                                                                      |
| Torsional Rigidity             | 14            | Nm/ar<br>cmin | Reduction Ratio: 3 100                                                                      |
| Permissible Axial Load         | 1625          | N             | Reduction Ratio: 3 100                                                                      |
| Permissible Radial Load        | 3250          | N             | Reduction Ratio: 3 100                                                                      |
| MECHANICAL                     |               |               |                                                                                             |
| Frame Size                     | 90            | mm            |                                                                                             |
| Weight                         | 4.1           | kg            | Reduction Ratio: 15 100                                                                     |
| Planetary Gearbox Key Width B1 | 6             | mm            |                                                                                             |

## Technical Specifications

| PARAMETER                            | SPECIFICATION | UNIT  | NOTES                  |
|--------------------------------------|---------------|-------|------------------------|
| MECHANICAL                           |               |       |                        |
| Planetary Gearbox Key Height H1      | 24.5          | mm    |                        |
| Planetary Gearbox Housing Length L3  | 10            | mm    |                        |
| Planetary Gearbox Spigot Diameter D6 | 116           | mm    |                        |
| Planetary Gearbox Key Length L6      | 3             | mm    |                        |
| ENVIRONMENTAL                        |               |       |                        |
| A-Weighted Noise Level               | 60            | dB(A) | Reduction Ratio: 3 100 |
| ADDITIONAL SPECIFICATIONS            |               |       |                        |
| Maximum Input Speed                  | 6000          | rpm   | Reduction Ratio: 3 100 |
| Compatible Servo Motor Power         | 400           | W     |                        |
| Motor Adapter Interface              | T2            |       |                        |
| Number of Reduction Stages           | 2             |       |                        |

## Dimensional & Integration Overview

### Mechanical Overview

| PARAMETER                            | VALUE | UNIT |
|--------------------------------------|-------|------|
| Frame Size                           | 90    | mm   |
| Weight                               | 4.1   | kg   |
| Planetary Gearbox Key Width B1       | 6     | mm   |
| Planetary Gearbox Key Height H1      | 24.5  | mm   |
| Planetary Gearbox Housing Length L3  | 10    | mm   |
| Planetary Gearbox Spigot Diameter D6 | 116   | 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.