

## PRODUCT DATASHEET

# ES-PG-C36-S009-V016

## Precision Transmission Component

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

### Product Overview

Precision Transmission Component with backlash 5 / 7 arcmin, maximum Input Speed 6000 rpm and frame Size 60 mm.

### Key Specifications

| PARAMETER                    | VALUE | UNIT   |
|------------------------------|-------|--------|
| Backlash                     | 5 / 7 | arcmin |
| Maximum Input Speed          | 6000  | rpm    |
| Frame Size                   | 60    | mm     |
| Weight                       | 1.9   | kg     |
| Compatible Servo Motor Power | 400   | W      |
| Motor Adapter Interface      | T3    |        |
| A-Weighted Noise Level       | 60    | dB(A)  |
| Permissible Axial Load       | 765   | N      |
| Permissible Radial Load      | 1530  | N      |

## Technical Specifications

| PARAMETER                      | SPECIFICATION | UNIT      | NOTES                                                                                                           |
|--------------------------------|---------------|-----------|-----------------------------------------------------------------------------------------------------------------|
| PERFORMANCE                    |               |           |                                                                                                                 |
| Backlash                       | 5 / 7         | arcmin    | Precision Grade: P1; Reduction Ratio: 15 100; Stage: 2 / Precision Grade: P2; Reduction Ratio: 15 100; Stage: 2 |
| Rated Input Speed              | 3000          | rpm       | Reduction Ratio: 3 100; Stage: 2                                                                                |
| Torsional Rigidity             | 7             | Nm/arcmin | Reduction Ratio: 3 100; Stage: 2                                                                                |
| Permissible Axial Load         | 765           | N         | Reduction Ratio: 3 100; Stage: 2                                                                                |
| Permissible Radial Load        | 1530          | N         | Reduction Ratio: 3 100; Stage: 2                                                                                |
| MECHANICAL                     |               |           |                                                                                                                 |
| Frame Size                     | 60            | mm        |                                                                                                                 |
| Weight                         | 1.9           | kg        | Reduction Ratio: 15 100; Stage: 2                                                                               |
| Planetary Gearbox Key Width B1 | 5             | mm        | Stage: 2                                                                                                        |

## Technical Specifications

| PARAMETER                            | SPECIFICATION | UNIT  | NOTES                            |
|--------------------------------------|---------------|-------|----------------------------------|
| MECHANICAL                           |               |       |                                  |
| Planetary Gearbox Key Height H1      | 18            | mm    | Stage: 2                         |
| Planetary Gearbox Housing Length L3  | 7             | mm    | Stage: 2                         |
| Planetary Gearbox Spigot Diameter D6 | 80            | mm    | Stage: 2                         |
| Planetary Gearbox Key Length L6      | 2             | mm    | Stage: 2                         |
| ENVIRONMENTAL                        |               |       |                                  |
| A-Weighted Noise Level               | 60            | dB(A) | Reduction Ratio: 3 100; Stage: 2 |
| ADDITIONAL SPECIFICATIONS            |               |       |                                  |
| Maximum Input Speed                  | 6000          | rpm   | Reduction Ratio: 3 100; Stage: 2 |
| Compatible Servo Motor Power         | 400           | W     |                                  |
| Motor Adapter Interface              | T3            |       |                                  |

## Dimensional & Integration Overview

### Mechanical Overview

| PARAMETER                            | VALUE | UNIT |
|--------------------------------------|-------|------|
| Frame Size                           | 60    | mm   |
| Weight                               | 1.9   | kg   |
| Planetary Gearbox Key Width B1       | 5     | mm   |
| Planetary Gearbox Key Height H1      | 18    | mm   |
| Planetary Gearbox Housing Length L3  | 7     | mm   |
| Planetary Gearbox Spigot Diameter D6 | 80    | 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.