PRODUCT DATASHEET

# ES-RD-C36-S001-V034

Precision Transmission Component

Ultra-Precision Planetary Gearboxes | Ultra-Precision Planetary Gearbox Series - ES-RD-C36-S001

## Product Overview

Precision Transmission Component with reduction Ratio 5, 9, frame Size 125 mm and compatible Servo Motor Power 2000 W.

## Key Specifications

| PARAMETER | VALUE | UNIT |
|---|---|---|
| Reduction Ratio | 5, 9 | |
| Frame Size | 125 | mm |
| Compatible Servo Motor Power | 2000 | W |
| Rated Output Torque | 23.8 / 48.6 | N·m |
| Number of Reduction Stages | 1 | |
| Input-shaft Equivalent Inertia | 3.5 / 2.81 | x10⁻⁴ kg.m² |
| Instantaneous Maximum Output Torque | 71.5 / 146 | N·m |
| Instantaneous Maximum Permissible Output Torque | 171 / 221 | N·m |
| Output Shaft Speed | 600 / 333 | rpm |

# Technical Specifications

| PARAMETER | SPECIFICATION | UNIT | NOTES |
|---|---|---|---|
| **PERFORMANCE** | | | |
| Rated Output Torque | 23.8 / 48.6 | N·m | Reduction Ratio: 5 / Reduction Ratio: 9 |
| Instantaneous Maximum Output Torque | 71.5 / 146 | N·m | Reduction Ratio: 5 / Reduction Ratio: 9 |
| Instantaneous Maximum Permissible Output Torque | 171 / 221 | N·m | Reduction Ratio: 5 / Reduction Ratio: 9 |
| Output Shaft Speed | 600 / 333 | rpm | Reduction Ratio: 5 / Reduction Ratio: 9 |
| Permissible Output Torque | 56.8 / 73.5 | N·m | Reduction Ratio: 5 / Reduction Ratio: 9 |
| Permissible Axial Load | 833 / 980 | N | Reduction Ratio: 5 / Reduction Ratio: 9 |
| Permissible Radial Load | 1960 / 1670 | N | Reduction Ratio: 9 / Reduction Ratio: 5 |
| **MECHANICAL** | | | |
| Frame Size | 125 | mm | |
| Input-shaft Equivalent Inertia | 3.5 / 2.81 | $x10^{-4}$ $kg.m^2$ | Reduction Ratio: 5 / Reduction Ratio: 9 |
| **CONFIGURATION** | | | |
| Reduction Ratio | 5, 9 | | |
| **ADDITIONAL SPECIFICATIONS** | | | |
| Compatible Servo Motor Power | 2000 | W | |
| Number of Reduction Stages | 1 | | |

# Dimensional & Integration Overview

## Mechanical Overview

| PARAMETER | VALUE | UNIT |
|---|---|---|
| Frame Size | 125 | mm |
| Input-shaft Equivalent Inertia | 3.5 / 2.81 | $x10^{-4}$ $kg.m^2$ |

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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.