

PRODUCT DATASHEET

ES-RD-C36-S001-V058

Precision Transmission Component

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

Product Overview

Precision Transmission Component with reduction Ratio 81, frame Size 98 mm and compatible Servo Motor Power 100 W.

Key Specifications

| PARAMETER                                       | VALUE | UNIT                               |
|-------------------------------------------------|-------|------------------------------------|
| Reduction Ratio                                 | 81    |                                    |
| Frame Size                                      | 98    | mm                                 |
| Compatible Servo Motor Power                    | 100   | W                                  |
| Rated Output Torque                             | 14    | N·m                                |
| Number of Reduction Stages                      | 2     |                                    |
| Input-shaft Equivalent Inertia                  | 0.03  | $\times 10^{-4}$ kg.m <sup>2</sup> |
| Instantaneous Maximum Output Torque             | 42    | N·m                                |
| Instantaneous Maximum Permissible Output Torque | 53.5  | N·m                                |
| Output Shaft Speed                              | 37    | rpm                                |

## Technical Specifications

| PARAMETER                                       | SPECIFICATION | UNIT                               |
|-------------------------------------------------|---------------|------------------------------------|
| PERFORMANCE                                     |               |                                    |
| Rated Output Torque                             | 14            | N·m                                |
| Instantaneous Maximum Output Torque             | 42            | N·m                                |
| Instantaneous Maximum Permissible Output Torque | 53.5          | N·m                                |
| Output Shaft Speed                              | 37            | rpm                                |
| Permissible Output Torque                       | 17.8          | N·m                                |
| Permissible Axial Load                          | 1030          | N                                  |
| Permissible Radial Load                         | 2060          | N                                  |
| MECHANICAL                                      |               |                                    |
| Frame Size                                      | 98            | mm                                 |
| Input-shaft Equivalent Inertia                  | 0.03          | $\times 10^{-4}$ kg·m <sup>2</sup> |
| CONFIGURATION                                   |               |                                    |
| Reduction Ratio                                 | 81            |                                    |
| ADDITIONAL SPECIFICATIONS                       |               |                                    |
| Compatible Servo Motor Power                    | 100           | W                                  |
| Number of Reduction Stages                      | 2             |                                    |

# Dimensional & Integration Overview

## Mechanical Overview

| PARAMETER                      | VALUE | UNIT                               |
|--------------------------------|-------|------------------------------------|
| Frame Size                     | 98    | mm                                 |
| Input-shaft Equivalent Inertia | 0.03  | $\times 10^{-4}$ kg.m <sup>2</sup> |

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Specifications are subject to change without notice. Verify the current product configuration before final design release.
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2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.