

PRODUCT DATASHEET

ES-RD-C36-S001-V026

Precision Transmission Component

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

Product Overview

Precision Transmission Component with reduction Ratio 3, 5, frame Size 125 mm and compatible Servo Motor Power 3500 W.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	3, 5	
Frame Size	125	mm
Compatible Servo Motor Power	3500	W
Rated Output Torque	47.2 / 28.3	N·m
Number of Reduction Stages	1	
Input-shaft Equivalent Inertia	5.5 / 3.48	$\times 10^{-4}$ kg.m ²
Instantaneous Maximum Output Torque	85.2 / 141	N·m
Instantaneous Maximum Permissible Output Torque	132 / 171	N·m
Output Shaft Speed	600 / 1000	rpm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Output Torque	47.2 / 28.3	Nm	Reduction Ratio: 5 / Reduction Ratio: 3
Instantaneous Maximum Output Torque	85.2 / 141	Nm	Reduction Ratio: 3 / Reduction Ratio: 5
Instantaneous Maximum Permissible Output Torque	132 / 171	Nm	Reduction Ratio: 3 / Reduction Ratio: 5
Output Shaft Speed	600 / 1000	rpm	Reduction Ratio: 5 / Reduction Ratio: 3
Permissible Output Torque	56.8 / 44.1	Nm	Reduction Ratio: 5 / Reduction Ratio: 3
Permissible Axial Load	686 / 833	N	Reduction Ratio: 3 / Reduction Ratio: 5
Permissible Radial Load	1670 / 1370	N	Reduction Ratio: 5 / Reduction Ratio: 3
MECHANICAL			
Frame Size	125	mm	
Input-shaft Equivalent Inertia	5.5 / 3.48	$\times 10^{-4}$ kg.m ²	Reduction Ratio: 3 / Reduction Ratio: 5
CONFIGURATION			
Reduction Ratio	3, 5		
ADDITIONAL SPECIFICATIONS			
Compatible Servo Motor Power	3500	W	
Number of Reduction Stages	1		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	125	mm
Input-shaft Equivalent Inertia	5.5 / 3.48	$\times 10^{-4}$ 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.