

PRODUCT DATASHEET

ES-RD-C36-S001-V027

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 4000 W.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	3, 5	
Frame Size	125	mm
Compatible Servo Motor Power	4000	W
Rated Output Torque	55.3 / 33.1	N·m
Number of Reduction Stages	1	
Input-shaft Equivalent Inertia	3.75 / 5.78	x10 ⁻⁴ kg.m ²
Instantaneous Maximum Output Torque	166 / 99	N·m
Instantaneous Maximum Permissible Output Torque	171 / 132	N·m
Output Shaft Speed	600 / 1000	rpm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Output Torque	55.3 / 33.1	Nm	Reduction Ratio: 5 / Reduction Ratio: 3
Instantaneous Maximum Output Torque	166 / 99	Nm	Reduction Ratio: 5 / Reduction Ratio: 3
Instantaneous Maximum Permissible Output Torque	171 / 132	Nm	Reduction Ratio: 5 / Reduction Ratio: 3
Output Shaft Speed	600 / 1000	rpm	Reduction Ratio: 5 / Reduction Ratio: 3
Permissible Output Torque	44.1 / 56.8	Nm	Reduction Ratio: 3 / Reduction Ratio: 5
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	3.75 / 5.78	$\times 10^{-4}$ kg.m ²	Reduction Ratio: 5 / Reduction Ratio: 3
CONFIGURATION			
Reduction Ratio	3, 5		
ADDITIONAL SPECIFICATIONS			
Compatible Servo Motor Power	4000	W	
Number of Reduction Stages	1		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	125	mm
Input-shaft Equivalent Inertia	3.75 / 5.78	$\times 10^{-4}$ kg.m ²

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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.