

PRODUCT DATASHEET

ES-RD-C36-S001-V055

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 98 mm and compatible Servo Motor Power 1500 W.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	3, 5	
Frame Size	98	mm
Compatible Servo Motor Power	1500	W
Rated Output Torque	12.3 / 21.5	N·m
Number of Reduction Stages	1	
Input-shaft Equivalent Inertia	2.43 / 1.85	x10 ⁻⁴ kg.m ²
Instantaneous Maximum Output Torque	37.1 / 64.4	N·m
Instantaneous Maximum Permissible Output Torque	70.6 / 54.9	N·m
Output Shaft Speed	1000 / 600	rpm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Output Torque	12.3 / 21.5	Nm	Reduction Ratio: 3 / Reduction Ratio: 5
Instantaneous Maximum Output Torque	37.1 / 64.4	Nm	Reduction Ratio: 3 / Reduction Ratio: 5
Instantaneous Maximum Permissible Output Torque	70.6 / 54.9	Nm	Reduction Ratio: 5 / Reduction Ratio: 3
Output Shaft Speed	1000 / 600	rpm	Reduction Ratio: 3 / Reduction Ratio: 5
Permissible Output Torque	18.3 / 23.5	Nm	Reduction Ratio: 3 / Reduction Ratio: 5
Permissible Axial Load	539 / 441	N	Reduction Ratio: 5 / Reduction Ratio: 3
Permissible Radial Load	1080 / 882	N	Reduction Ratio: 5 / Reduction Ratio: 3
MECHANICAL			
Frame Size	98	mm	
Input-shaft Equivalent Inertia	2.43 / 1.85	$\times 10^{-4}$ kg.m ²	Reduction Ratio: 3 / Reduction Ratio: 5
CONFIGURATION			
Reduction Ratio	3, 5		
ADDITIONAL SPECIFICATIONS			
Compatible Servo Motor Power	1500	W	
Number of Reduction Stages	1		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	98	mm
Input-shaft Equivalent Inertia	2.43 / 1.85	$\times 10^{-4}$ 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.