

PRODUCT DATASHEET

ES-RD-C36-S001-V050

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 78 mm and compatible Servo Motor Power 400 W.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	5, 9	
Frame Size	78	mm
Compatible Servo Motor Power	400	W
Rated Output Torque	9.51 / 5.39	N·m
Number of Reduction Stages	1	
Input-shaft Equivalent Inertia	0.363 / 0.275	x10 ⁻⁴ kg.m ²
Instantaneous Maximum Output Torque	16.2 / 28.5	N·m
Instantaneous Maximum Permissible Output Torque	19.7 / 29.2	N·m
Output Shaft Speed	600 / 333	rpm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Output Torque	9.51 / 5.39	Nm	Reduction Ratio: 9 / Reduction Ratio: 5
Instantaneous Maximum Output Torque	16.2 / 28.5	Nm	Reduction Ratio: 5 / Reduction Ratio: 9
Instantaneous Maximum Permissible Output Torque	19.7 / 29.2	Nm	Reduction Ratio: 5 / Reduction Ratio: 9
Output Shaft Speed	600 / 333	rpm	Reduction Ratio: 5 / Reduction Ratio: 9
Permissible Output Torque	9.7 / 6.57	Nm	Reduction Ratio: 9 / Reduction Ratio: 5
Permissible Axial Load	588 / 490	N	Reduction Ratio: 9 / Reduction Ratio: 5
Permissible Radial Load	980 / 1180	N	Reduction Ratio: 5 / Reduction Ratio: 9
MECHANICAL			
Frame Size	78	mm	
Input-shaft Equivalent Inertia	0.363 / 0.275	$\times 10^{-4}$ kg.m ²	Reduction Ratio: 5 / Reduction Ratio: 9
CONFIGURATION			
Reduction Ratio	5, 9		
ADDITIONAL SPECIFICATIONS			
Compatible Servo Motor Power	400	W	
Number of Reduction Stages	1		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	78	mm
Input-shaft Equivalent Inertia	0.363 / 0.275	$\times 10^{-4}$ 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.