

PRODUCT DATASHEET

ES-RD-C36-S001-V049

Precision Transmission Component

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

Product Overview

Precision Transmission Component with reduction Ratio 45, 81, frame Size 78 mm and compatible Servo Motor Power 50 W.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	45, 81	
Frame Size	78	mm
Compatible Servo Motor Power	50	W
Rated Output Torque	3.86 / 7.02	N·m
Number of Reduction Stages	2	
Input-shaft Equivalent Inertia	0.027 / 0.0285	x10 ⁻⁴ kg.m ²
Instantaneous Maximum Output Torque	20.8 / 11.6	N·m
Instantaneous Maximum Permissible Output Torque	29.2 / 28.6	N·m
Output Shaft Speed	66 / 37	rpm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Output Torque	3.86 / 7.02	Nm	Reduction Ratio: 45 / Reduction Ratio: 81
Instantaneous Maximum Output Torque	20.8 / 11.6	Nm	Reduction Ratio: 81 / Reduction Ratio: 45
Instantaneous Maximum Permissible Output Torque	29.2 / 28.6	Nm	Reduction Ratio: 81 / Reduction Ratio: 45
Output Shaft Speed	66 / 37	rpm	Reduction Ratio: 45 / Reduction Ratio: 81
Permissible Output Torque	9.7 / 9.5	Nm	Reduction Ratio: 81 / Reduction Ratio: 45
MECHANICAL			
Frame Size	78	mm	
Input-shaft Equivalent Inertia	0.027 / 0.0285	$\times 10^{-4}$ kg.m ²	Reduction Ratio: 81 / Reduction Ratio: 45
CONFIGURATION			
Reduction Ratio	45, 81		
ADDITIONAL SPECIFICATIONS			
Compatible Servo Motor Power	50	W	
Number of Reduction Stages	2		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	78	mm
Input-shaft Equivalent Inertia	0.027 / 0.0285	x10 ⁻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.