

PRODUCT DATASHEET

ES-RD-C36-S001-V032

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, frame Size 125 mm and compatible Servo Motor Power 400 W.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	45	
Frame Size	125	mm
Compatible Servo Motor Power	400	W
Rated Output Torque	47.5	N·m
Number of Reduction Stages	2	
Input-shaft Equivalent Inertia	0.245	x10 ⁻⁴ kg.m ²
Instantaneous Maximum Output Torque	142.5	N·m
Instantaneous Maximum Permissible Output Torque	171	N·m
Output Shaft Speed	66	rpm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated Output Torque	47.5	N·m
Instantaneous Maximum Output Torque	142.5	N·m
Instantaneous Maximum Permissible Output Torque	171	N·m
Output Shaft Speed	66	rpm
Permissible Output Torque	57	N·m
Permissible Axial Load	1760	N
Permissible Radial Load	3520	N
MECHANICAL		
Frame Size	125	mm
Input-shaft Equivalent Inertia	0.245	$\times 10^{-4}$ kg·m ²
CONFIGURATION		
Reduction Ratio	45	
ADDITIONAL SPECIFICATIONS		
Compatible Servo Motor Power	400	W
Number of Reduction Stages	2	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	125	mm
Input-shaft Equivalent Inertia	0.245	$\times 10^{-4}$ 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.