

PRODUCT DATASHEET

ES-RD-C36-S001-V030

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, frame Size 125 mm and compatible Servo Motor Power 5000 W.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	3	
Frame Size	125	mm
Compatible Servo Motor Power	5000	W
Rated Output Torque	42.9	N·m
Number of Reduction Stages	1	
Input-shaft Equivalent Inertia	5.78	$\times 10^{-4}$ kg.m ²
Instantaneous Maximum Output Torque	128	N·m
Instantaneous Maximum Permissible Output Torque	132	N·m
Output Shaft Speed	1000	rpm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated Output Torque	42.9	N·m
Instantaneous Maximum Output Torque	128	N·m
Instantaneous Maximum Permissible Output Torque	132	N·m
Output Shaft Speed	1000	rpm
Permissible Output Torque	44.1	N·m
Permissible Axial Load	686	N
Permissible Radial Load	1370	N
MECHANICAL		
Frame Size	125	mm
Input-shaft Equivalent Inertia	5.78	$\times 10^{-4}$ kg·m ²
CONFIGURATION		
Reduction Ratio	3	
ADDITIONAL SPECIFICATIONS		
Compatible Servo Motor Power	5000	W
Number of Reduction Stages	1	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	125	mm
Input-shaft Equivalent Inertia	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.