PRODUCT DATASHEET

ES-RD-C36-S001-V029

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, 9, frame Size 125 mm and compatible Servo Motor Power 3000 W.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	3, 5, 9	
Frame Size	125	mm
Compatible Servo Motor Power	3000	W
Rated Output Torque	23.7 / 73 / 39.6	N·m
Number of Reduction Stages	1	
Input-shaft Equivalent Inertia	2.77 / 5.5 / 3.48	x10^{-4} kg.m^2
Instantaneous Maximum Output Torque	119 / 71.2 / 219	N·m
Instantaneous Maximum Permissible Output Torque	132 / 171 / 221	N·m
Output Shaft Speed	1000 / 600 / 333	rpm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Output Torque	23.7 / 73 / 39.6	N·m	Varies by published configuration.
Instantaneous Maximum Output Torque	119 / 71.2 / 219	N·m	Varies by published configuration.
Instantaneous Maximum Permissible Output Torque	132 / 171 / 221	N·m	Varies by published configuration.
Output Shaft Speed	1000 / 600 / 333	rpm	Varies by published configuration.
Permissible Output Torque	73.5 / 56.8 / 44.1	N·m	Varies by published configuration.
Permissible Axial Load	833 / 980 / 686	N	Varies by published configuration.
Permissible Radial Load	1370 / 1960 / 1670	N	Varies by published configuration.
MECHANICAL			
Frame Size	125	mm	
Input-shaft Equivalent Inertia	2.77 / 5.5 / 3.48	$x10^{-4}$ $kg.m^2$	Varies by published configuration.
CONFIGURATION			
Reduction Ratio	3, 5, 9		
ADDITIONAL SPECIFICATIONS			
Compatible Servo Motor Power	3000	W	
Number of Reduction Stages	1		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	125	mm
Input-shaft Equivalent Inertia	2.77 / 5.5 / 3.48	$x10^{-4}$ $kg.m^2$

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.