PRODUCT DATASHEET

ES-RD-C36-S001-V042

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 52 mm and compatible Servo Motor Power 100 W.

Key Specifications

PARAMETER	VALUE	UNIT
Reduction Ratio	3, 5, 9	
Frame Size	52	mm
Compatible Servo Motor Power	100	W
Rated Output Torque	0.715 / 1.18 / 2.25	N·m
Number of Reduction Stages	1	
Input-shaft Equivalent Inertia	0.035 / 0.04 / 0.0575	$x10^{-4}$ $kg.m^2$
Instantaneous Maximum Output Torque	6.86 / 3.72 / 2.06	N·m
Instantaneous Maximum Permissible Output Torque	7.25 / 10.3 / 4.7	N·m
Output Shaft Speed	600 / 333 / 1000	rpm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Output Torque	0.715 / 1.18 / 2.25	N·m	Varies by published configuration.
Instantaneous Maximum Output Torque	6.86 / 3.72 / 2.06	N·m	Varies by published configuration.
Instantaneous Maximum Permissible Output Torque	7.25 / 10.3 / 4.7	N·m	Varies by published configuration.
Output Shaft Speed	600 / 333 / 1000	rpm	Varies by published configuration.
Permissible Output Torque	2.35 / 1.57 / 3.43	N·m	Varies by published configuration.
Permissible Axial Load	196 / 245 / 294	N	Varies by published configuration.
Permissible Radial Load	392 / 490 / 588	N	Varies by published configuration.
MECHANICAL			
Frame Size	52	mm	
Input-shaft Equivalent Inertia	0.035 / 0.04 / 0.0575	$x10^{-4}$ $kg.m^2$	Varies by published configuration.
CONFIGURATION			
Reduction Ratio	3, 5, 9		
ADDITIONAL SPECIFICATIONS			
Compatible Servo Motor Power	100	W	
Number of Reduction Stages	1		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	52	mm
Input-shaft Equivalent Inertia	0.035 / 0.04 / 0.0575	$x10^{-4}$ $kg.m^2$

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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.