

PRODUCT DATASHEET

ES-PG-C36-S009-V101

Precision Transmission Component

Ultra-Precision Planetary Gearboxes | Ultra-Precision Planetary Gearbox Series - ES-PG-C36-S009

Product Overview

Precision Transmission Component with backlash 3 / 7 / 5 arcmin, maximum Input Speed 6000 rpm and frame Size 142 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Backlash	3 / 7 / 5	arcmin
Maximum Input Speed	6000	rpm
Frame Size	142	mm
Weight	17.5	kg
Compatible Servo Motor Power	1500	W
Motor Adapter Interface	T1	
Rated Output Torque	342 / 542	Nm
Number of Reduction Stages	2	
A-Weighted Noise Level	65	dB(A)

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Backlash	3 / 7 / 5	arcmin	Varies by published configuration.
Rated Output Torque	342 / 542	N·m	Reduction Ratio: 15 / Reduction Ratio: 20
Rated Input Speed	3000	rpm	Reduction Ratio: 3 100
Torsional Rigidity	50	N·m/arcmin	Reduction Ratio: 3 100
Permissible Axial Load	4700	N	Reduction Ratio: 3 100
Permissible Radial Load	9400	N	Reduction Ratio: 3 100
MECHANICAL			
Frame Size	142	mm	
Weight	17.5	kg	Reduction Ratio: 15 100
Planetary Gearbox Key Width B1	12	mm	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Planetary Gearbox Key Height H1	43	mm	
Planetary Gearbox Housing Length L3	15	mm	
Planetary Gearbox Spigot Diameter D6	185	mm	
Planetary Gearbox Key Length L6	4	mm	
ENVIRONMENTAL			
A-Weighted Noise Level	65	dB(A)	Reduction Ratio: 3 100
ADDITIONAL SPECIFICATIONS			
Maximum Input Speed	6000	rpm	Reduction Ratio: 3 100
Compatible Servo Motor Power	1500	W	
Motor Adapter Interface	T1		
Number of Reduction Stages	2		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	142	mm
Weight	17.5	kg
Planetary Gearbox Key Width B1	12	mm
Planetary Gearbox Key Height H1	43	mm
Planetary Gearbox Housing Length L3	15	mm
Planetary Gearbox Spigot Diameter D6	185	mm

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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.