PRODUCT DATASHEET

ES-HG-S27-F32-R100

Precision Transmission Component

Ultra-Thin Harmonic Gearboxes | Thin Cup Gear Unit

Product Overview

Precision Transmission Component with rated Torque 96 N·m, instantaneous Maximum Torque 420 N·m and start/Stop Peak Torque 233 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	96	N·m
Instantaneous Maximum Torque	420	N·m
Start/Stop Peak Torque	233	N·m
Reduction Ratio	100	
Backlash	≤20	arc sec
Maximum Input Speed	4800	r/min
Allowable Average Torque	151	N·m
Frame Size	32	
Weight	2.4	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	96	N·m	Frame Size: 32; Reduction Ratio: 100
Instantaneous Maximum Torque	420	N·m	Frame Size: 32; Reduction Ratio: 100
Start/Stop Peak Torque	233	N·m	Frame Size: 32; Reduction Ratio: 100
Backlash	≤20	arc sec	Frame Size: 32; Reduction Ratio: 100
Allowable Average Torque	151	N·m	Frame Size: 32; Reduction Ratio: 100
MECHANICAL			
Frame Size	32		Frame Size: 32; Reduction Ratio: 100
Weight	2.4	kg	Frame Size: 32; Reduction Ratio: 100
RELIABILITY			
Design Life	10000	h	Frame Size: 32; Reduction Ratio: 100
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	100		Frame Size: 32; Reduction Ratio: 100
Maximum Input Speed	4800	r/min	Frame Size: 32; Reduction Ratio: 100
Average Input Speed	3500	r/min	Frame Size: 32; Reduction Ratio: 100

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	32	
Weight	2.4	kg

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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.