PRODUCT DATASHEET

ES-HG-S27-F32-R50

Precision Transmission Component

Ultra-Thin Harmonic Gearboxes | Thin Cup Gear Unit

Product Overview

Precision Transmission Component with rated Torque 53 N·m, instantaneous Maximum Torque 268 N·m and start/Stop Peak Torque 151 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	53	N·m
Instantaneous Maximum Torque	268	N·m
Start/Stop Peak Torque	151	N·m
Reduction Ratio	50	
Backlash	≤20	arc sec
Maximum Input Speed	4800	r/min
Allowable Average Torque	75	N·m
Frame Size	32	
Weight	2.4	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	53	N·m	Frame Size: 32; Reduction Ratio: 50
Instantaneous Maximum Torque	268	N·m	Frame Size: 32; Reduction Ratio: 50
Start/Stop Peak Torque	151	N·m	Frame Size: 32; Reduction Ratio: 50
Backlash	≤20	arc sec	Frame Size: 32; Reduction Ratio: 50
Allowable Average Torque	75	N·m	Frame Size: 32; Reduction Ratio: 50
MECHANICAL			
Frame Size	32		Frame Size: 32; Reduction Ratio: 50
Weight	2.4	kg	Frame Size: 32; Reduction Ratio: 50
RELIABILITY			
Design Life	9000	h	Frame Size: 32; Reduction Ratio: 50
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	50		Frame Size: 32; Reduction Ratio: 50
Maximum Input Speed	4800	r/min	Frame Size: 32; Reduction Ratio: 50
Average Input Speed	3500	r/min	Frame Size: 32; Reduction Ratio: 50

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.