PRODUCT DATASHEET

ES-HG-S27-F32-R80

Precision Transmission Component

Ultra-Thin Harmonic Gearboxes | Thin Cup Gear Unit

Product Overview

Precision Transmission Component with rated Torque 83 N·m, instantaneous Maximum Torque 398 N·m and start/Stop Peak Torque 213 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	83	N·m
Instantaneous Maximum Torque	398	N·m
Start/Stop Peak Torque	213	N·m
Reduction Ratio	80	
Backlash	≤20	arc sec
Maximum Input Speed	4800	r/min
Allowable Average Torque	117	N·m
Frame Size	32	
Weight	2.4	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	83	N·m	Frame Size: 32; Reduction Ratio: 80
Instantaneous Maximum Torque	398	N·m	Frame Size: 32; Reduction Ratio: 80
Start/Stop Peak Torque	213	N·m	Frame Size: 32; Reduction Ratio: 80
Backlash	≤20	arc sec	Frame Size: 32; Reduction Ratio: 80
Allowable Average Torque	117	N·m	Frame Size: 32; Reduction Ratio: 80
MECHANICAL			
Frame Size	32		Frame Size: 32; Reduction Ratio: 80
Weight	2.4	kg	Frame Size: 32; Reduction Ratio: 80
RELIABILITY			
Design Life	10000	h	Frame Size: 32; Reduction Ratio: 80
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	80		Frame Size: 32; Reduction Ratio: 80
Maximum Input Speed	4800	r/min	Frame Size: 32; Reduction Ratio: 80
Average Input Speed	3500	r/min	Frame Size: 32; Reduction Ratio: 80

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	32	
Weight	2.4	kg

View Product Online Request Engineering Data Request a Quote

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.