

PRODUCT DATASHEET

ES-HG-S06-F32-R50

Precision Transmission Component

Cup Harmonic Gearboxes | High-Torque Cup Unit Type II

Product Overview

Precision Transmission Component with rated Torque 99 N·m, instantaneous Maximum Torque 497 N·m and start/Stop Peak Torque 281 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	99	N·m
Instantaneous Maximum Torque	497	N·m
Start/Stop Peak Torque	281	N·m
Reduction Ratio	50	
Backlash	≤20 / 20	arc sec
Maximum Input Speed	4800	r/min
Allowable Average Torque	140	N·m
Frame Size	32	
Weight	3.11	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated Torque	99	N·m
Instantaneous Maximum Torque	497	N·m
Start/Stop Peak Torque	281	N·m
Backlash	≤20 / 20	arc sec
Allowable Average Torque	140	N·m
Angular Transmission Accuracy	1	arc min
Hysteresis Loss	2	arc min
Starting Torque	34 / 0.34	N·m
MECHANICAL		
Frame Size	32	
Weight	3.11	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
RELIABILITY		
Design Life	10000	h
ADDITIONAL SPECIFICATIONS		
Reduction Ratio	50	
Maximum Input Speed	4800	r/min
Average Input Speed	3500	r/min
Torsional Rigidity K1	5.4 / 54000	Nm/rad
Torsional Rigidity K2	7.8 / 78000	Nm/rad
Torsional Rigidity K3	9.8 / 98000	Nm/rad
Torsional Rigidity T2	108	Nm
Torsional Rigidity T1	29	Nm

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	32	
Weight	3.11	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.