

PRODUCT DATASHEET

ES-HG-S06-F32-R120

Precision Transmission Component

Cup Harmonic Gearboxes | High-Torque Cup Unit Type II

Product Overview

Precision Transmission Component with rated Torque 178 N·m, instantaneous Maximum Torque 892 N·m and start/Stop Peak Torque 459 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	178	N·m
Instantaneous Maximum Torque	892	N·m
Start/Stop Peak Torque	459	N·m
Reduction Ratio	120	
Backlash	≤20 / 20	arc sec
Maximum Input Speed	4800	r/min
Allowable Average Torque	281	N·m
Frame Size	32	
Weight	3.11	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated Torque	178	N·m
Instantaneous Maximum Torque	892	N·m
Start/Stop Peak Torque	459	N·m
Backlash	≤20 / 20	arc sec
Allowable Average Torque	281	N·m
Angular Transmission Accuracy	1	arc min
Hysteresis Loss	1	arc min
Starting Torque	17 / 0.17	N·m
MECHANICAL		
Frame Size	32	
Weight	3.11	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
RELIABILITY		
Design Life	15000	h
ADDITIONAL SPECIFICATIONS		
Reduction Ratio	120	
Maximum Input Speed	4800	r/min
Average Input Speed	3500	r/min
Torsional Rigidity K1	6.7 / 67000	Nm/rad
Torsional Rigidity K2	11 / 110000	Nm/rad
Torsional Rigidity K3	12 / 120000	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.