PRODUCT DATASHEET

ES-HG-S06-F32-R160

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 484 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	178	N·m
Instantaneous Maximum Torque	892	N·m
Start/Stop Peak Torque	484	N·m
Reduction Ratio	160	
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	484	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	15 / 0.15	N·m
MECHANICAL		
Frame Size	32	
Weight	3.11	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
RELIABILITY		
Design Life	15000	h
ADDITIONAL SPECIFICATIONS		
Reduction Ratio	160	
Maximum Input Speed	4800	r/min
Average Input Speed	3500	r/min
Torsional Rigidity K1	6.7 / 67000	N·m/rad
Torsional Rigidity K2	11 / 110000	N·m/rad
Torsional Rigidity K3	12 / 120000	N·m/rad
Torsional Rigidity T2	108	N·m
Torsional Rigidity T1	29	N·m

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.