

PRODUCT DATASHEET

ES-HG-S06-F32-R100

Precision Transmission Component

Cup Harmonic Gearboxes | High-Torque Cup Unit Type II

Product Overview

Precision Transmission Component with rated Torque 178 Nm, instantaneous Maximum Torque 841 Nm and start/Stop Peak Torque 433 Nm.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	178	Nm
Instantaneous Maximum Torque	841	Nm
Start/Stop Peak Torque	433	Nm
Reduction Ratio	100	
Backlash	≤20 / 20	arc sec
Maximum Input Speed	4800	r/min
Allowable Average Torque	281	Nm
Frame Size	32	
Weight	3.11	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated Torque	178	N·m
Instantaneous Maximum Torque	841	N·m
Start/Stop Peak Torque	433	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	20 / 0.2	N·m
MECHANICAL		
Frame Size	32	
Weight	3.11	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
RELIABILITY		
Design Life	15000	h
ADDITIONAL SPECIFICATIONS		
Reduction Ratio	100	
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.