PRODUCT DATASHEET

ES-HG-S24-F25-R160

Precision Transmission Component

Hat Harmonic Gearboxes | Standard Hat Unit Type I

Product Overview

Precision Transmission Component with rated Torque 67 N·m, instantaneous Maximum Torque 314 N·m and start/Stop Peak Torque 176 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	67	N·m
Instantaneous Maximum Torque	314	N·m
Start/Stop Peak Torque	176	N·m
Reduction Ratio	160	
Backlash	≤20	arc sec
Maximum Input Speed	5600	r/min
Allowable Average Torque	108	N·m
Frame Size	25	
Weight	1.22	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	67	N·m	Frame Size: 25; Reduction Ratio: 160
Instantaneous Maximum Torque	314	N·m	Frame Size: 25; Reduction Ratio: 160
Start/Stop Peak Torque	176	N·m	Frame Size: 25; Reduction Ratio: 160
Backlash	≤20	arc sec	Frame Size: 25; Reduction Ratio: 160
Allowable Average Torque	108	N·m	Frame Size: 25; Reduction Ratio: 160
MECHANICAL			
Frame Size	25		Frame Size: 25; Reduction Ratio: 160
Weight	1.22	kg	Frame Size: 25; Reduction Ratio: 160
Wave Generator Dimension T	16.3+0.10 / 12.8+0.10	mm	Frame Size: 25; Option Index: 1; Option Label: Wave generator - A φ14; Reduction Ratio: 160; Wave Generator Option: wave-generator-307ae5fd0846 / Frame Size: 25; Option Label: Wave generator - A φ11; Reduction Ratio: 160; Wave Generator Option: wave-generator-fd26f6670d9b
Wave Generator Bore U	φ14H7 / φ11H7		Frame Size: 25; Option Index: 1; Option Label: Wave generator - A φ14; Reduction Ratio: 160; Wave Generator Option: wave-generator-307ae5fd0846 / Frame Size: 25; Option Label: Wave generator - A φ11; Reduction Ratio: 160; Wave Generator Option: wave-generator-fd26f6670d9b
Wave Generator Keyway W	5JS9/P9 / 4JS9/P9		Frame Size: 25; Option Index: 1; Option Label: Wave generator - A φ14; Reduction Ratio: 160; Wave Generator Option: wave-generator-307ae5fd0846 / Frame Size: 25; Option Label: Wave generator - A φ11; Reduction Ratio: 160; Wave Generator Option: wave-generator-fd26f6670d9b
RELIABILITY			
Design Life	15000	h	Frame Size: 25; Reduction Ratio: 160
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	160		Frame Size: 25; Reduction Ratio: 160
Maximum Input Speed	5600	r/min	Frame Size: 25; Reduction Ratio: 160
Average Input Speed	3500	r/min	Frame Size: 25; Reduction Ratio: 160

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	25	
Weight	1.22	kg
Wave Generator Dimension T	16.3+0.10 / 12.8+0.10	mm
Wave Generator Bore U	φ14H7 / φ11H7	
Wave Generator Keyway W	5JS9/P9 / 4JS9/P9	

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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.