PRODUCT DATASHEET

ES-HG-S24-F17-R100

Precision Transmission Component

Hat Harmonic Gearboxes | Standard Hat Unit Type I

Product Overview

Precision Transmission Component with rated Torque 24 N·m, instantaneous Maximum Torque 108 N·m and start/Stop Peak Torque 54 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	24	N·m
Instantaneous Maximum Torque	108	N·m
Start/Stop Peak Torque	54	N·m
Reduction Ratio	100	
Backlash	≤20	arc sec
Maximum Input Speed	7300	r/min
Allowable Average Torque	39	N·m
Frame Size	17	
Weight	0.54	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	24	N·m	Frame Size: 17; Reduction Ratio: 100
Instantaneous Maximum Torque	108	N·m	Frame Size: 17; Reduction Ratio: 100
Start/Stop Peak Torque	54	N·m	Frame Size: 17; Reduction Ratio: 100
Backlash	≤20	arc sec	Frame Size: 17; Reduction Ratio: 100
Allowable Average Torque	39	N·m	Frame Size: 17; Reduction Ratio: 100
MECHANICAL			
Frame Size	17		Frame Size: 17; Reduction Ratio: 100
Weight	0.54	kg	Frame Size: 17; Reduction Ratio: 100
Wave Generator Dimension T	9.4+0.10 / 12.8+0.10	mm	Frame Size: 17; Option Label: Wave generator - A φ8; Reduction Ratio: 100; Wave Generator Option: wave-generator-e6e55a341aa3 / Frame Size: 17; Option Index: 1; Option Label: Wave generator - A φ11; Reduction Ratio: 100; Wave Generator Option: wave-generator-fd26f6670d9b
Wave Generator Bore U	φ8H7 / φ11H7		Frame Size: 17; Option Label: Wave generator - A φ8; Reduction Ratio: 100; Wave Generator Option: wave-generator-e6e55a341aa3 / Frame Size: 17; Option Index: 1; Option Label: Wave generator - A φ11; Reduction Ratio: 100; Wave Generator Option: wave-generator-fd26f6670d9b
Wave Generator Keyway W	3JS9/P9 / 4JS9/P9		Frame Size: 17; Option Label: Wave generator - A φ8; Reduction Ratio: 100; Wave Generator Option: wave-generator-e6e55a341aa3 / Frame Size: 17; Option Index: 1; Option Label: Wave generator - A φ11; Reduction Ratio: 100; Wave Generator Option: wave-generator-fd26f6670d9b
RELIABILITY			
Design Life	15000	h	Frame Size: 17; Reduction Ratio: 100
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	100		Frame Size: 17; Reduction Ratio: 100
Maximum Input Speed	7300	r/min	Frame Size: 17; Reduction Ratio: 100
Average Input Speed	3500	r/min	Frame Size: 17; Reduction Ratio: 100

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	17	
Weight	0.54	kg
Wave Generator Dimension T	9.4+0.10 / 12.8+0.10	mm
Wave Generator Bore U	φ8H7 / φ11H7	
Wave Generator Keyway W	3JS9/P9 / 4JS9/P9	

View Product Online Request Engineering Data Request a Quote

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.