

TORSEN M021DHU University Special – General Facts

(This unit is no longer available. This sheet is for informational purposes only!)

GENERAL INFORMATION		
Bias Ratio:	3.5:1	
Lubrication:	80W-90 GL5	
Unit Cost:	\$ 495	
Gearing Cost:	\$ 110	
	Inch	Metric
Weight:	8 lbs. 10 ozs.	3.91 kg
Bolt Torque:	35 ft/lbs.	47.5 N/m
SIDE GEAR INFORMATION		
Number of Teeth:	28	
Diametral Pitch:	32	
Space Width Angle	68°	
External Angle:	80.8571°	
Pitch Diameter:	0.875	22.225
Major Diameter:	0.887 – 0.892	22.530 – 22.657
Minor Diameter:	0.824 – 0.828	20.930 – 21.031
Normal Tooth Thickness Actual:	0.0461 – 0.0472	1.171 – 1.199
Measuring Pin Diameter:	0.063	1.600
Measurement between 2 Pins:	0.9725 – 0.9739	24.702 – 24.737
Fillet Radius:	0.010 MAX	0.254 MAX

WASHER REPLACEMENT PARTS:

END WASHER PACK		
Needle Bearing: Purchase either INA or FAG thrust bearing part number AXK3047.		
	Inch	Metric
Nominal Inside Diameter:	1.18	30
Nominal Outside Diameter:	1.85	47
Nominal Thickness:	0.08	2
Thrust Washer: Purchase either an INA or FAG thrust washer part number LS3047.		
Nominal Inside Diameter:	1.18	30
Nominal Outside Diameter:	1.83	46.5
Nominal Thickness:	0.12	3
Rework Thickness:	0.094	2.38
CENTER WASHER PACK		
Thrust Washer: Purchase either an INA or FAG thrust washer part number LS3047.		
Nominal Inside Diameter:	1.18	30
Nominal Outside Diameter:	1.83	46.5
Nominal Thickness:	0.12	3
Rework Outside Diameter:	1.80 – 1.81	45.7 – 46.0
Rework Thickness:	0.061 – 0.062	1.55 – 1.58
Bronze Bearing: Bronze washer not commercially available. Make from hardened bronze.		
Nominal Inside Diameter:	1.18	30
Nominal Outside Diameter:	1.85	47
Thickness:	0.078 – 0.079	1.98 – 2.01
When replacing thrust washers or bearings, check axial stack clearance by inserting a feeler gage between the bronze and steel washers. Adjust steel washer thickness, if necessary, to maintain a 0.08 – 0.20 mm clearance.		