

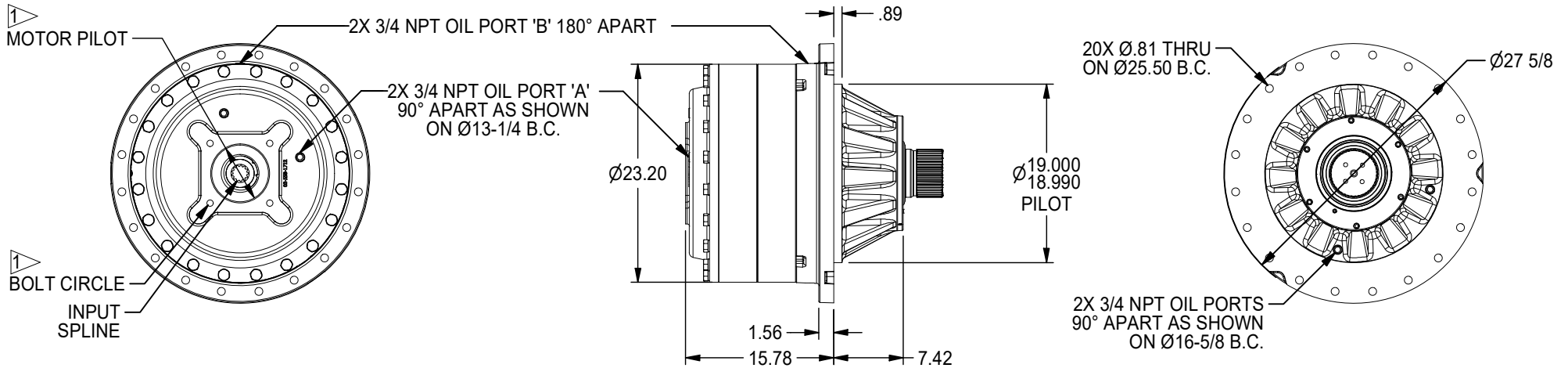


# 600 GEAR DRIVE - SHAFT OUTPUT

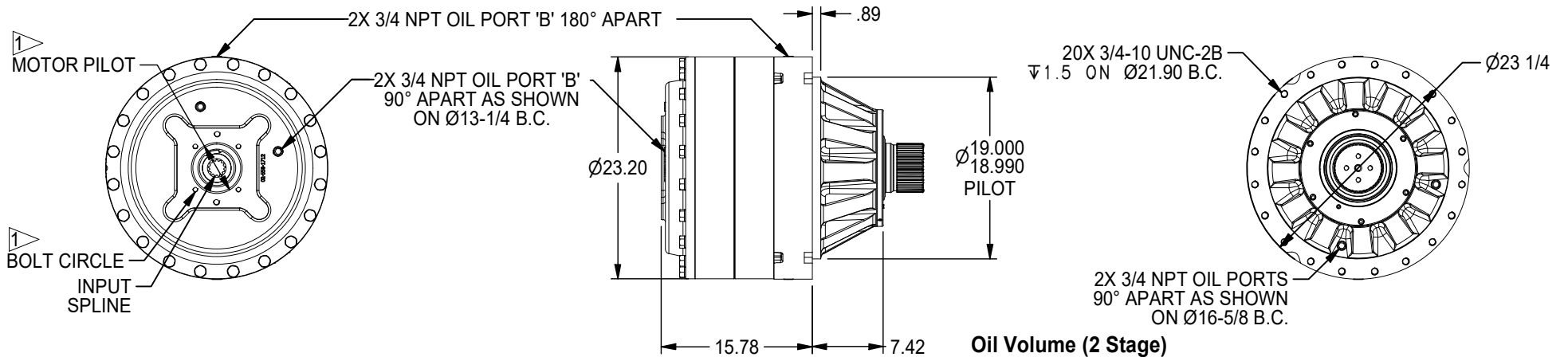
600,000 in-lb (67,791 N-m) Intermittent Rating 300,000 in-lb (33,895 N-m) Continuous Rating  
 Typical Applications: Industrial, Marine or Mobile Equipment

(913) 782-1238 (Tel)  
 (913) 782-4206 (Fax)  
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 www.Eskridgeinc.com  
 FORM: PS600L-AC  
 SHEET 1 OF 5

## 600 2-Stage General Dimensions Flanged 'A' Option



## 600 2-Stage General Dimensions Flangless 'F' Option



## NOTES: ▷

1. SPECIFICATIONS CALLED OUT IN MOTOR MOUNT DIMENSIONS SECTION.
2. VALUES ARE SHOWN IN INCHES.
3. OUTPUT SHAFT ROTATION SAME DIRECTION AS INPUT ROTATION.

### Oil Volume (2 Stage)

LUBRICATION ORIENTATION	HORIZONTAL:	VERTICAL: PINION DOWN	VERTICAL: PINION UP
QUANTITY	5.00 Gal	9.50 Gal	9.50 Gal
OIL FILL LEVEL (GRADE GL-5 EP 80/90)	FILL TO: PORT 'A'	FILL TO: 1.5" FROM COVER PORT 'A'	FILL TO: PORT 'B'

All Units Shipped Without Oil



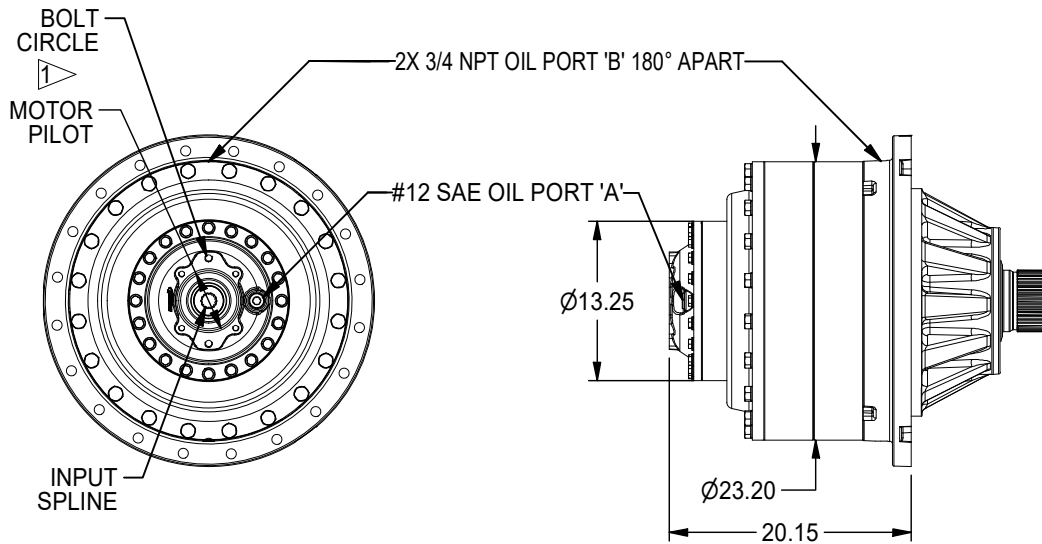
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## 600 3-Stage with 254 Primary (Base dimensions identical to 2-Stage Option)



Available Ratios:

- 106 106.33:1
- 138 138.29:1
- 155 155.34:1
- 166 166.27:1
- 211 211.34:1
- 216 216.25:1
- 243 242.90:1
- 260 260.00:1
- 304 303.57:1
- 330 330.48:1
- 338 338.15:1
- 380 379.83:1
- 395 394.82:1
- 443 443.48:1
- 475 474.70:1
- 501 501.30:1

Input Mounting:

- SAE "A" (2 & Modified 4 Bolt)
- SAE "B" (2 & 4 Bolt)
- SAE "C" (2 & 4 Bolt)
- SAE "D" (4 Bolt)

Input Spline:

- 4 (14T 12/24 DP Spline)
- 9 (13T 8/16 DP Spline)

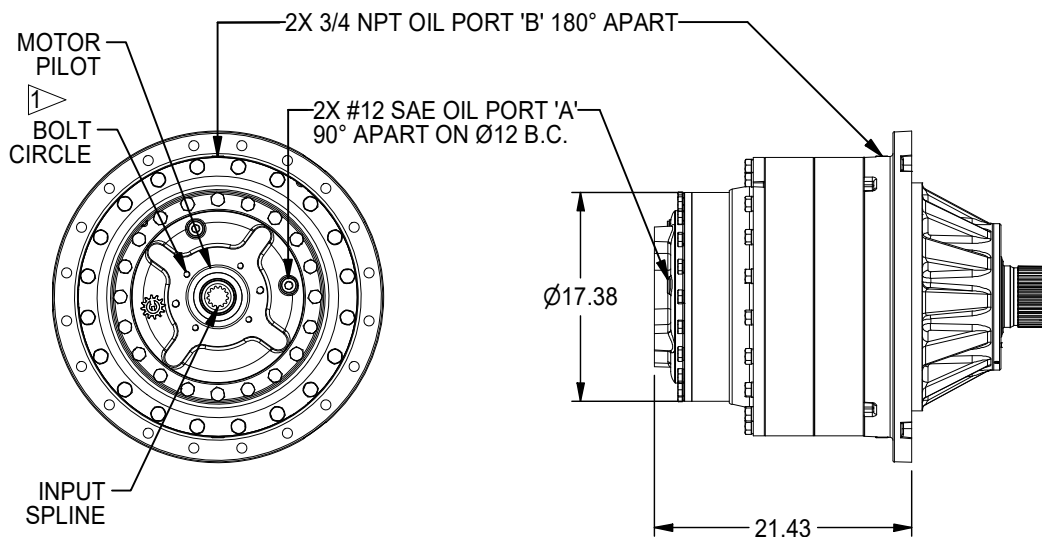
### Oil Volume (3 Stage with 254 Primary)

LUBRICATION QUANTITY	ORIENTATION	HORIZONTAL:	VERTICAL: PINION DOWN	VERTICAL: PINION UP
			5.9 Gal	11.3 Gal
OIL FILL LEVEL (GRADE GL-5 EP 80/90)		FILL TO: PORT 'A'	FILL TO: 1.5" FROM COVER PORT 'A'	FILL TO: PORT 'B'

All Units Shipped Without Oil

(Other Ratios Available)  
 Consult Eskridge Representative

## 600 3-Stage with 440 Primary



Available Ratios:

- 97 97.33:1
- 145 144.72:1
- 152 152.19:1
- 187 187.10:1
- 226 226.31:1
- 238 237.99:1
- 278 277.87:1
- 293 292.57:1
- 354 353.88:1
- 413 413.18:1
- 458 457.50:1

Input Mounting:

- SAE "C" (2 & 4 Bolt)
- SAE "D" (4 Bolt)
- SAE "E" (4 Bolt)

Input Spline:

- 4 (14T 12/24 DP Spline)
- 5 (15T 8/16 DP Spline)
- 8 (16T 8/16 DP Spline)
- 9 (13T 8/16 DP Spline)

### Oil Volume (3 Stage with 440 Primary)

LUBRICATION QUANTITY	ORIENTATION	HORIZONTAL:	VERTICAL: PINION DOWN	VERTICAL: PINION UP
			5.9 Gal	11.3 Gal
OIL FILL LEVEL (GRADE GL-5 EP 80/90)		FILL TO: PORT 'A'	FILL TO: 1.5" FROM COVER PORT 'A'	FILL TO: PORT 'B'

All Units Shipped Without Oil

(Other Ratios Available)  
 Consult Eskridge Representative

## NOTES:

1. SPECIFICATIONS CALLED OUT IN MOTOR MOUNT DIMENSIONS SECTION.
2. 16T NOT AVAILABLE ON 187:1, 293:1 AND 458:1 RATIOS.



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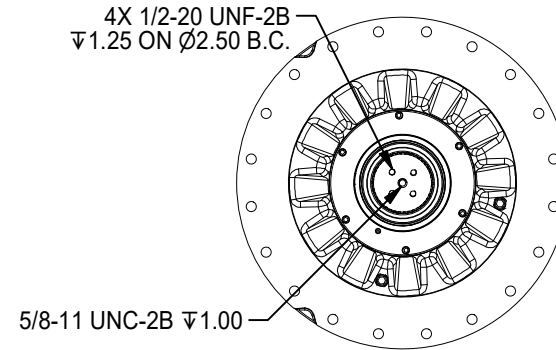
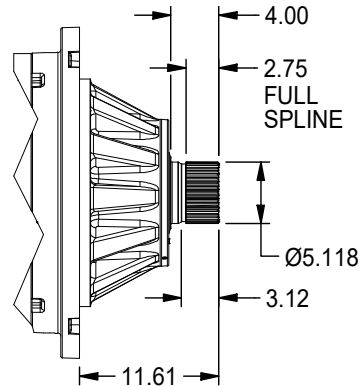
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SHEET 3 OF 5

## Output Shaft Options *Values are shown as inches.*

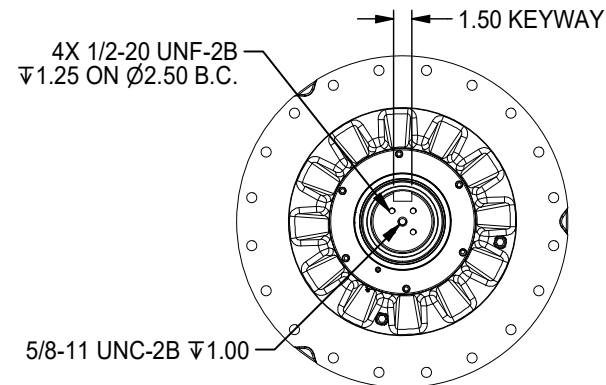
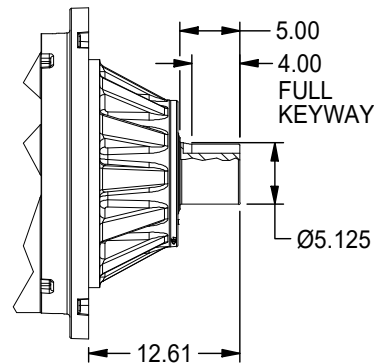
### D1 - 40T 8/16 DP Spline

Adapter Hub Available  
Part Number: 60-004-4042  
Retainer Kit: 60-018-0901

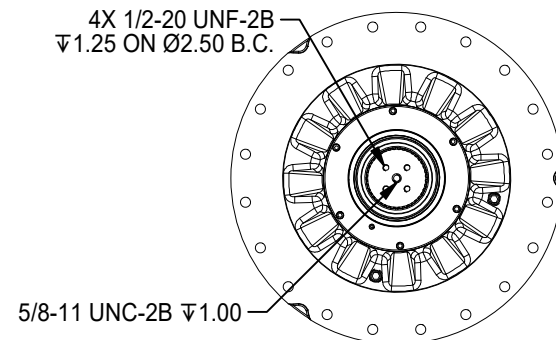
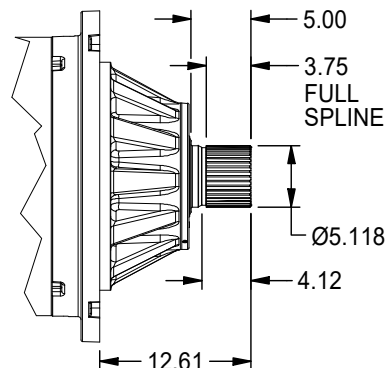
See Hubs and Pinions Technical  
Data Sheet for details.



### D2 - Ø5.125 X 1.50 X 5 Keyway



### D3 - Long 40T 8/16 DP Spline





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## Performance Ratings

Maximum Intermittent Output Torque: 600,000 in-lb (67,791 N-m)  
 Continuous Output Torque: 300,000 in-lb (33,895 N-m)  
 Maximum Input Speed: 4,000 RPM  
 Maximum Operating Ambient Temperature: 110° F (43° C)  
 Minimum Operating Ambient Temperature: -20° F (-28° C)

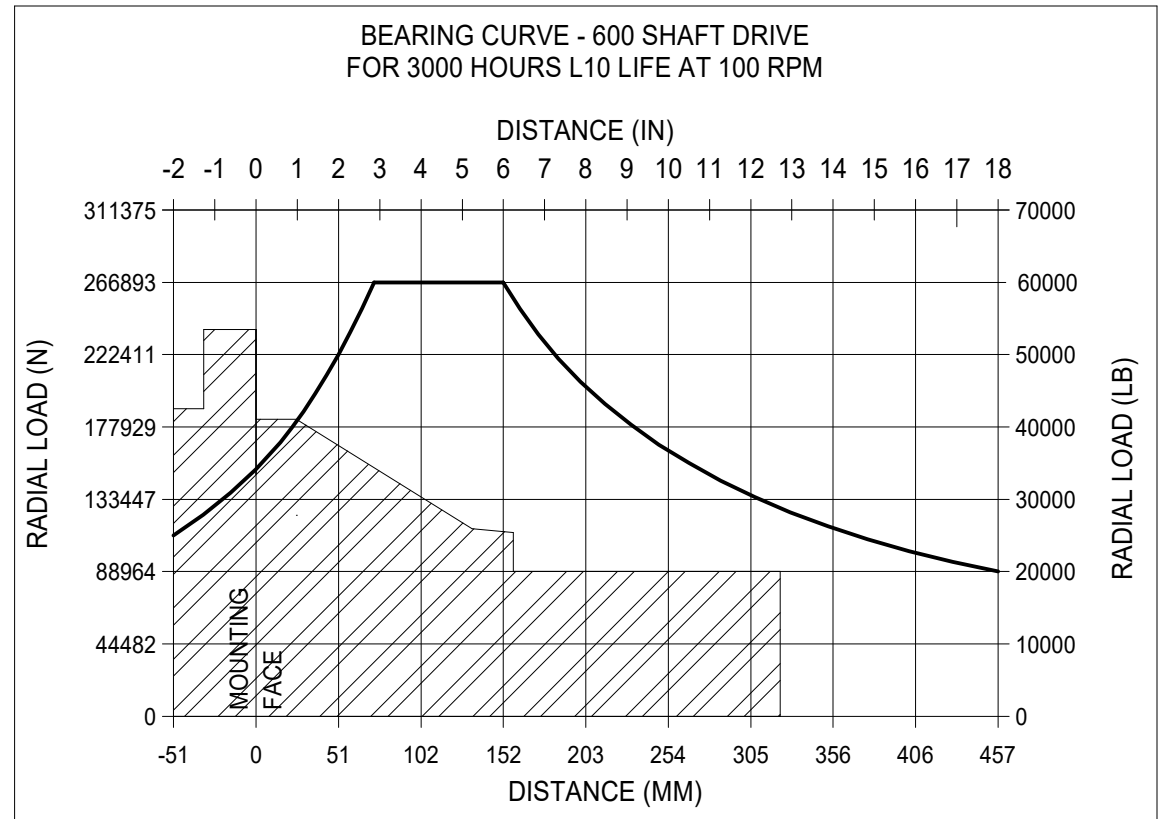
*Consult your Eskridge representative to determine ratings for your specific application or configuration*

## Motor Mount Dimensions

PILOT DIMENSIONS	BOLT CIRCLE
SAE 'A' Ø3.250/3.254	2 & 4X 1/2-13 UNC-2B ∇5/8 ON Ø4.188 B.C.
SAE 'B' Ø4.001/4.005	2X 1/2-13 UNC-2B ∇.50 ON Ø5.75 B.C.
SAE 'C' Ø5.001/5.004	4X 1/2-13 UNC-2B ∇1 ON Ø6.375 B.C. 2X 5/8-11 UNC-2B ∇1 ON Ø7.125 B.C.
SAE 'D' Ø6.000/6.004	4X 3/4-10 UNC-2B ∇1 ON Ø9.000 B.C.
SAE 'E' Ø6.501/6.505	4X 3/4-10 UNC-2B ∇1 ON Ø12.500 B.C.

## Approximate Unit Weight

Single Stage: 1200 lb (544 kg)  
 Two Stage: 1,425 lb (612 kg)  
 Three Stage: 1,700 lb (771 kg)



To adjust for loads and speeds other than those shown on above curve, use this formula:

$$\text{Adjusted Life (hours)} = 3000 \left( \frac{100 \text{ rpm}}{\text{Speed (Adjusted)}} \right) \times \left( \frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{10/3}$$



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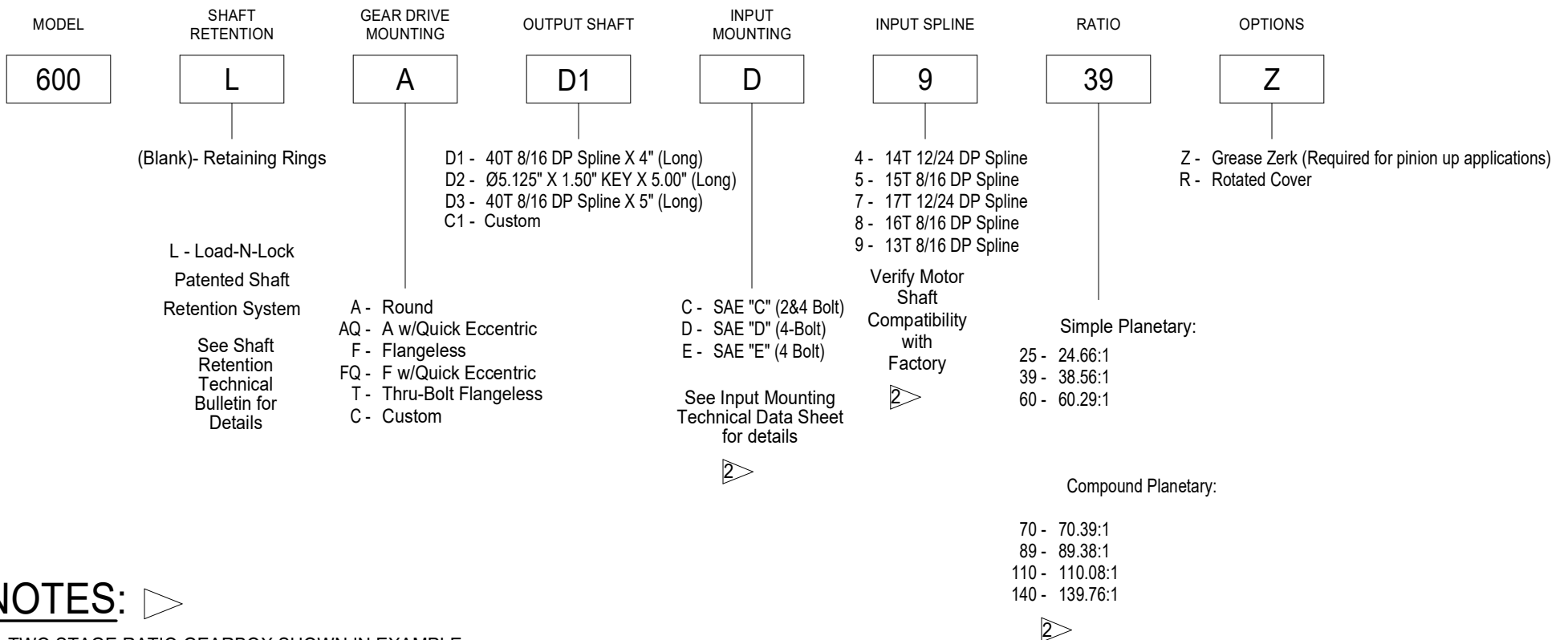
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## Ordering Information

Example Part Number: 600LAD1D9-39-Z



## NOTES: ▷

1. TWO STAGE RATIO GEARBOX SHOWN IN EXAMPLE.
2. THREE STAGE INPUT MOUNTING, INPUT SPLINE AND RATIOS ARE SHOWN ON PAGE 2.