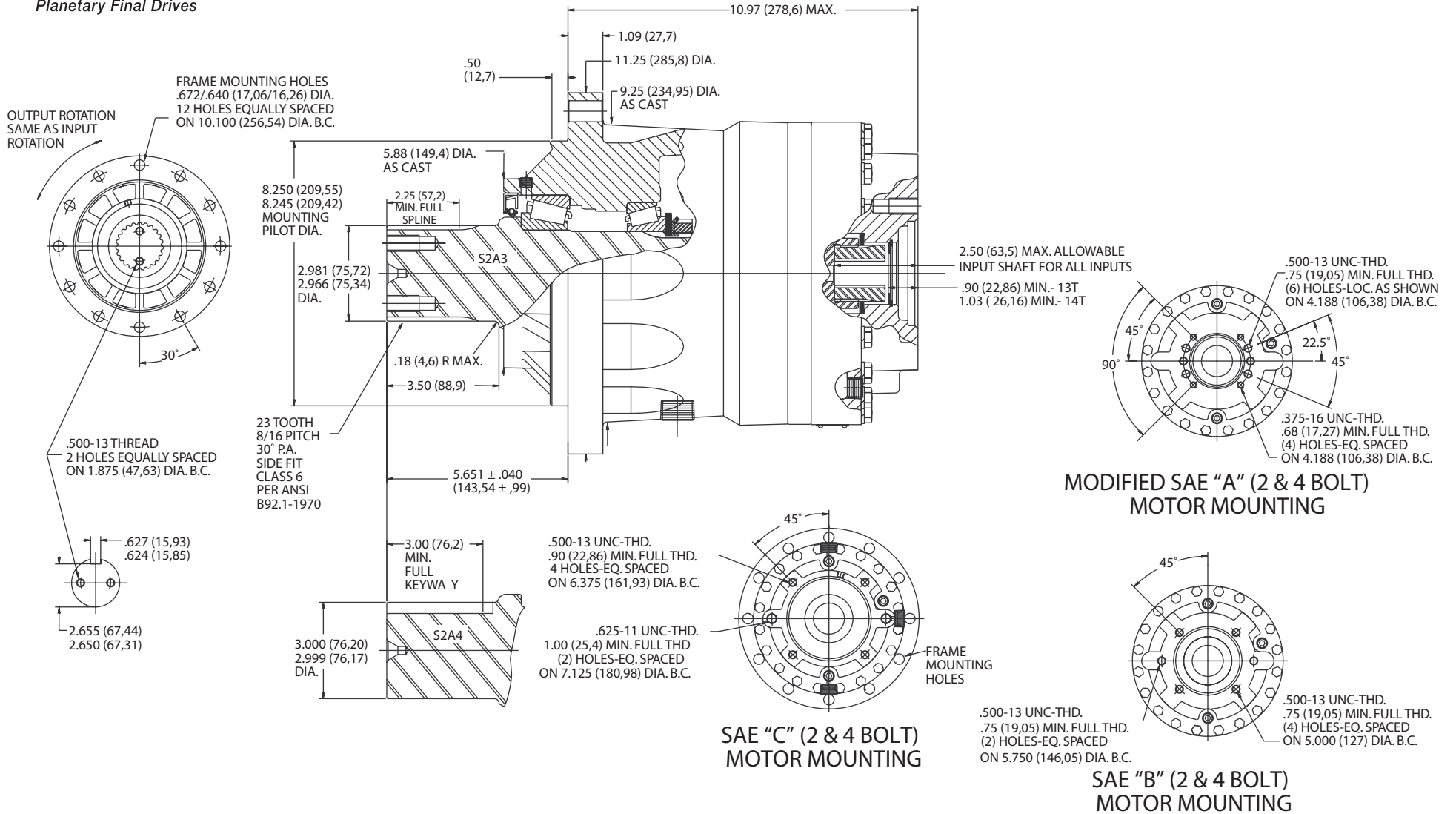


TORQUE-HUB
Planetary Final Drives



Catalog prints are representative of the units.
Before final design request a certified print from Fairfield.

NOTE: MM SHOWN IN ()
MOTOR CAVITY DIMENSIONS VARY WITH MODEL

OTHER MODELS ALSO AVAILABLE
FAIRFIELD BRAKE AVAILABLE

S2A3

Performance Data

Continuous	Intermittent	Peak
25,000 lb-in	50,000 lb-in	60,000 lb-in
2,083 lb-ft	4,167 lb-ft	5,000 lb-ft
2,817 Nm	5,633 Nm	6,790 Nm
287 kg-m	573 kg-m	688 kg-m

For ultimate torque and horsepower capacities, contact a Torque-Hub® representative.

Speed Limitations

Input Speed: 4,000 RPM Maximum Intermittent

Weight

Approximately 160 lbs (73 kg)

Note: Specific models will change weights.

S2A3 Model Formula

S – Torque-Hub® Shaft Output

2 – Series

	Shaft	Hub	
	Configuration	Hub Flange Thickness	Flange B.C.
A3	2.981" Dia. 23T, 8/16 Spline	1.09	(12) .672/.640 Holes 10.100 B.C.
A4	3.000" Dia. .627/.624 Keyway	1.09	(12) .672/.640 Holes 10.100 B.C.



Fairfield Manufacturing Company, Inc.
First in Custom Gears and Drive Systems
www.fairfieldmfg.com

Hydraulic Motor Mount
2 – S.A.E. "A" (3.255/3.251) Pilot
3 – S.A.E. "B" (4.005/4.001) Pilot
4 – S.A.E. "C" (5.005/5.001) Pilot

Oil

Fill to half full with 90 weight gear lube with EP additive on most applications.

Approximate Volume 45 oz. (1,336 cm³)

Note: Oil level and type will vary with specific model and application.

Conditions of Bearing Curve

Life = 3,000 hours B-10
Speed = 100 RPM output

To adjust for loads and speeds other than shown on curve:

$$\text{Adjusted Life (hrs)} = 3,000 \left(\frac{100 \text{ RPM}}{\text{Speed (Adjusted)}} \right) \times \left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{10/3}$$

S 2 A3 3 3 50

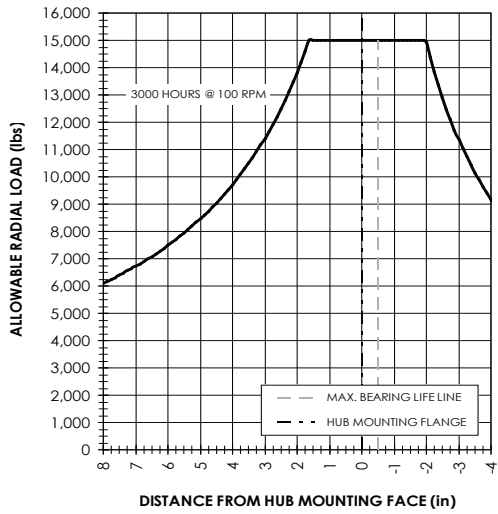
Ratios

- 14 – 14.30:1
- 21 – 20.86:1
- 26 – 25.82:1
- 29 – 29.22:1
- 35 – 34.83:1
- 38 – 37.64:1
- 44 – 43.65:1
- 50 – 50.03:1

Input

- 3 – 13T, 16/32 Spline
- 4 – 14T, 12/24 Spline
- 6 – 6 B Parallel Side Spline
Major Dia.: 1.00 in.
- 8 – 15T, 16/32 Spline

Bearing Curve



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