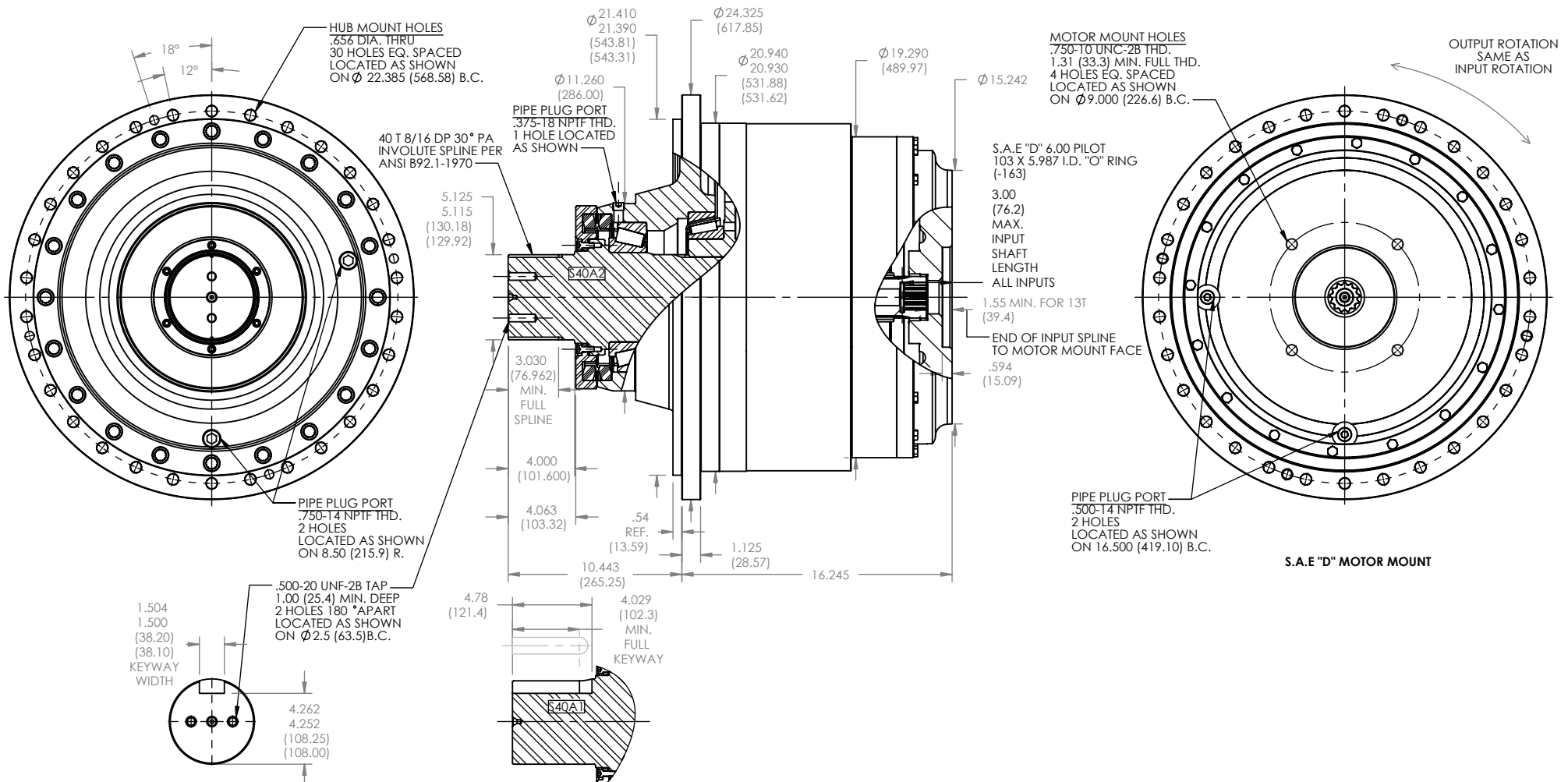


40 Series

**S40A**

**Application Sheet**

**TORQUE-HUB**  
Planetary Final Drives



**oerlikon**  
**fairfield**

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

## S40A

### Performance Data

Continuous	Intermittent	Peak
400,000 in-lbs	800,000 in-lbs	
33,333 ft-lbs	66,667 ft-lbs	Contact Fairfield
45,198 N-m	90,395 N-m	
4,607 kg-m	9,215 kg-m	

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

### Speed Limitations

**Input Speed:** 3,000 RPM Maximum Intermittent

Contact Fairfield for speed limitations and horsepower.

### Weight

**Approximately** 1,400lbs (636kg)

Note: Specific models will change weights.

### S40A Model Formula

### Oil

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

Approximate Volume: 500oz (14785cc)

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

### Conditions of Bearing Curve

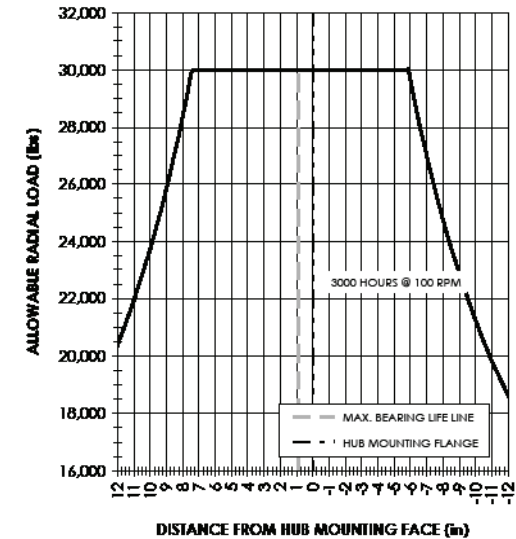
**Life** = 3,000 hours B10

**Speed** = 100 RPM output

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

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

### Bearing Curve



**S 40 A 2 5 5 40**

### S - Torque-Hub Shaft Output

### 40 - Series

	Shaft	Hub	
	Configuration	Hub Flange Thickness	Flange B.C.
A1	"5.125" Diameter 1.5" Keyway"	1.125"	"(30) .660/.650 Holes 22.385 Diameter B.C."
A2	"5.125" Diameter 40T, 8/16 Spline"	1.125"	"(30) .660/.650 Holes 22.385 Diameter B.C."

**Reduction**  
25 - 24.95  
40 - 39.71

**Input**  
5 - 13T, 8/16 spline

### Motor Mount

5 - SAE "D" (6.005/6.001) Pilot (4 bolt)

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First in Custom Gears and Drive Systems

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