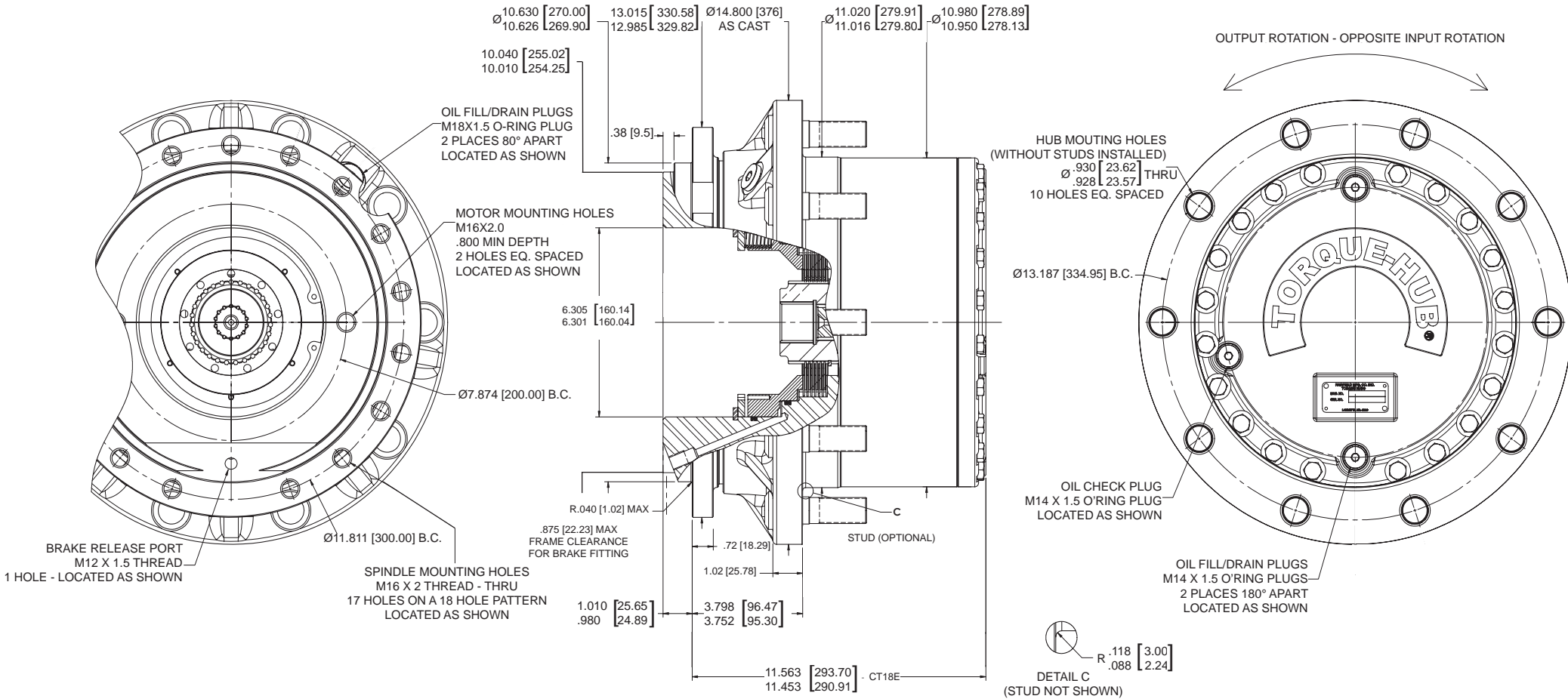


CT Series
CT18E
 Application Sheet

TORQUE-HUB®
 Planetary Final Drives



oerlikon
 fairfield

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

FOR DISCONNECT VERSION, PLEASE CONTACT FACTORY REPRESENTATIVE
 NOTE: MM SHOWN IN () OTHER MODELS ALSO AVAILABLE
 MOTOR CAVITY DIMENSIONS VARY WITH MODEL **FAIRFIELD** BRAKE AVAILABLE

CT18E

Performance Data

Continuous	Intermittent
80,000 lb-in 9,000 Nm	160,000 lb-in 18,000 Nm

Speed Limitations

Units with Brake: 5,000 RPM Maximum Intermittent
(periods of 30 min or less)

Units without Brake: 6,000 RPM Maximum Intermittent
(periods of 30 min or less)

Weight

Approximately 235 lbs (107 kg)

Note: Specific models will change weights. Designed for use with cartridge-style hydraulic motors.

CT18 Model Formula

Oil

Fill to half full with EP-90 oil on most applications.

Volume of Oil:

- 64 oz. (1,894 cm³) for CT18 units with brake included
- 82 oz. (2,426 cm³) for CT18 units without brake

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

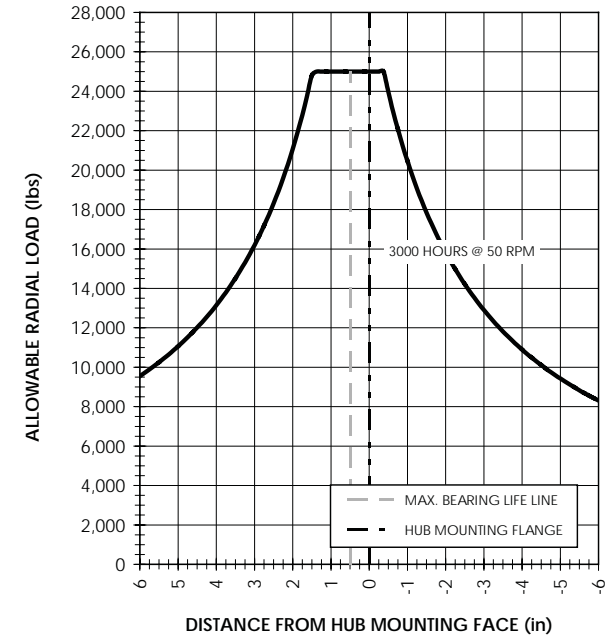
Conditions of Bearing Curve

Life = 3000 hours B-10
Speed = 50 RPM output

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

$$\text{Adjusted Life} = 3000 \left(\frac{50 \text{ RPM}}{\text{Speed (Adjusted)}} \right) \left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{10/3}$$

Bearing Curve



CT 18 E1 1 H 1 4 141

CT – Compact Track Drive

Output Torque Capacity
18 – 18,000 Nm

Housing/Spindle Configuration

(Contact Fairfield)

Hub Flange Holes

E1 – .930/.928 THRU (x10), 13.187 (335 mm) B.C.

E2 – M16 x 2 (x18), 12.990 (330 mm) B.C.

Hydraulic Motor Cavity Configuration

1 – Sauer-Danfoss H1B060, 51C060, 90K42/55, 40M46

Rexroth A2FE 45/56/63

Rexroth A6VE 55, A10VE63 (15T)

Parker/Voac F12 - 40/60, V12-60 (W30)

7 – SAE “B”

8 – SAE “C”

Input Brake

0 – Not Included

1 – 3090 lb-in (349 Nm)

2 – 4495 lb-in (508 Nm)

3 – 5338 lb-in (603 Nm)

4 – 3652 lb-in (413 Nm)

Note: 3,000 PSI (207 Bar) maximum pressure for all brakes listed.

Wheel Studs

0 – Not Included

H – M22 x 1.5 by 2.22”

1 – 3/4 - 16 UNC by 1.54”

J – M22 x 1.5 by 3.05”

Motor Shaft Input

4 – 14T, 12/24

8 – 15T, 16/32

A – W30x2x14x9g

Ratios

063 – 62.85:1

071 – 71.49:1

077 – 77.20:1

084 – 84.25:1

096 – 95.82:1

113 – 112.90:1

141 – 140.79:1

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