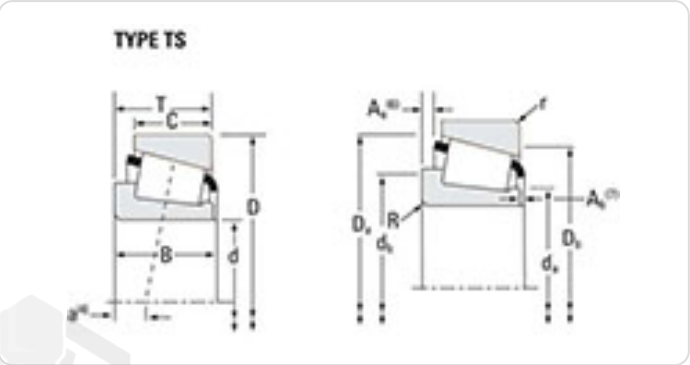
The Timken Company
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N. Canton, OH 44720
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Part Number 33117, Tapered Roller Bearings - TS (Tapered Single) Metric





Key Features

- Available in single, double and multi-row configurations, as well as proprietary sizes
- Designed in collaboration with OE engineers to design, engineer and test bearings for premium performance in many applications
- Power dense designs allow for heavier loads and can help extend bearing life
- Optimized internal geometry lowers torque and operating temperatures to extend lubrication system life
- Can be designed to withstand high-corrosive, high-temperature and vacuum or low-lubrication environments with proprietary enhancements

Key Dimensions	
UPC	0053893260204
Cone Part Number	X33117
Cup Part Number	Y33117
Bore (d)	85 mm 3.3465 in
O.D. (D)	140 mm 5.5118 in

Width (T)	41.000 mm 1.6142 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	254000 N 57100 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	65800 N 14800 lbf
e Factor [3]	0.41
K Factor [4]	1.44
Y Factor [5]	1.48

Other Dimensions

Weight	2.5 Kg 5.4 lb
Inner Ring Width (B)	41 mm 1.6142 in
Outer Ring Width (C)	32.000 mm 1.2598 in
Effective Center Location[6]	-8.1 mm -0.32 in
Max Shaft Fillet Radius[7]	2.540 mm 0.100 in
Max Housing Fillet Radius[8]	2.03 mm 0.08 in
Shaft Backing Shoulder Dia. - Frontface (da)	96 mm 3.78 in
Shaft Backing Shoulder Dia. - Backface (db)	102 mm 4.02 in
Housing Backing Shoulder Dia. - Frontface (Da)	134.90 mm 5.35 in
Housing Backing Shoulder Dia. - Backface (Db)	125.98 mm 4.96 in
Cage Location rel. to BF (Aa)	4.1 mm 0.16 in
Cage Location rel. to FF (Ab)	3.3 mm 0.13 in

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	45800 N 10300 lbf

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Static Radial Load Rating (C0)	386000 N 86800 lbf

Factors	
G1 Factor	160.9
G2 Factor	39.6
Geometry Factor (Cg)[10]	0.0972

[1] Based on 1 x 10^6 revolutions L_{10} life, for the ISO life calculation method.

[2] Based on 90 x 10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values.

[3] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[4] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[5] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[6] Negative value indicates effective center inside cone backface.

[7] These maximum fillet radii will be cleared by the bearing corners.

[8] These maximum fillet radii will be cleared by the bearing corners.

[9] Based on 90 x 10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values for a single-row, $C_{90(2)}$ is the two-row radial value.

[10] Geometry constant for Lubrication Life Adjustment Factor a3l.

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