


The Timken Company

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Part Number 3MMVC9117HXVVDUMFS637, Fafnir® High Speed Spindle Angular Contact Ball Bearings (9300HX, 9100HX)

Timken® angular contact ball bearings are designed for combination radial and axial loading. Single-row bearings have high thrust capacity in one direction. Some single-row bearings are specifically designed for duplex mounting in sets for maximum performance.



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Specifications

Rows per Set	Duplex
Seal Type	High Speed
Design Units	Metric
d - Bore	85 mm
Ball Type	Ceramic
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	130 mm 5.1181 in
Bearing Width	22 mm 0.8661 in
Total Width	44 mm 1.7322 in
Contact Angle	25 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	24300 N 5460 lbf
Ce - Dynamic Radial Rating (per row)¹	35000 N 7870 lbf
C1 ISO - Dynamic Radial Rating (per row)	31800 N 7160 lbf

Factors

Limiting Speed (Grease) (per row)	13560 rpm
Limiting Speed (Oil)	27120 rpm

Abutment and Fillet Dimensions

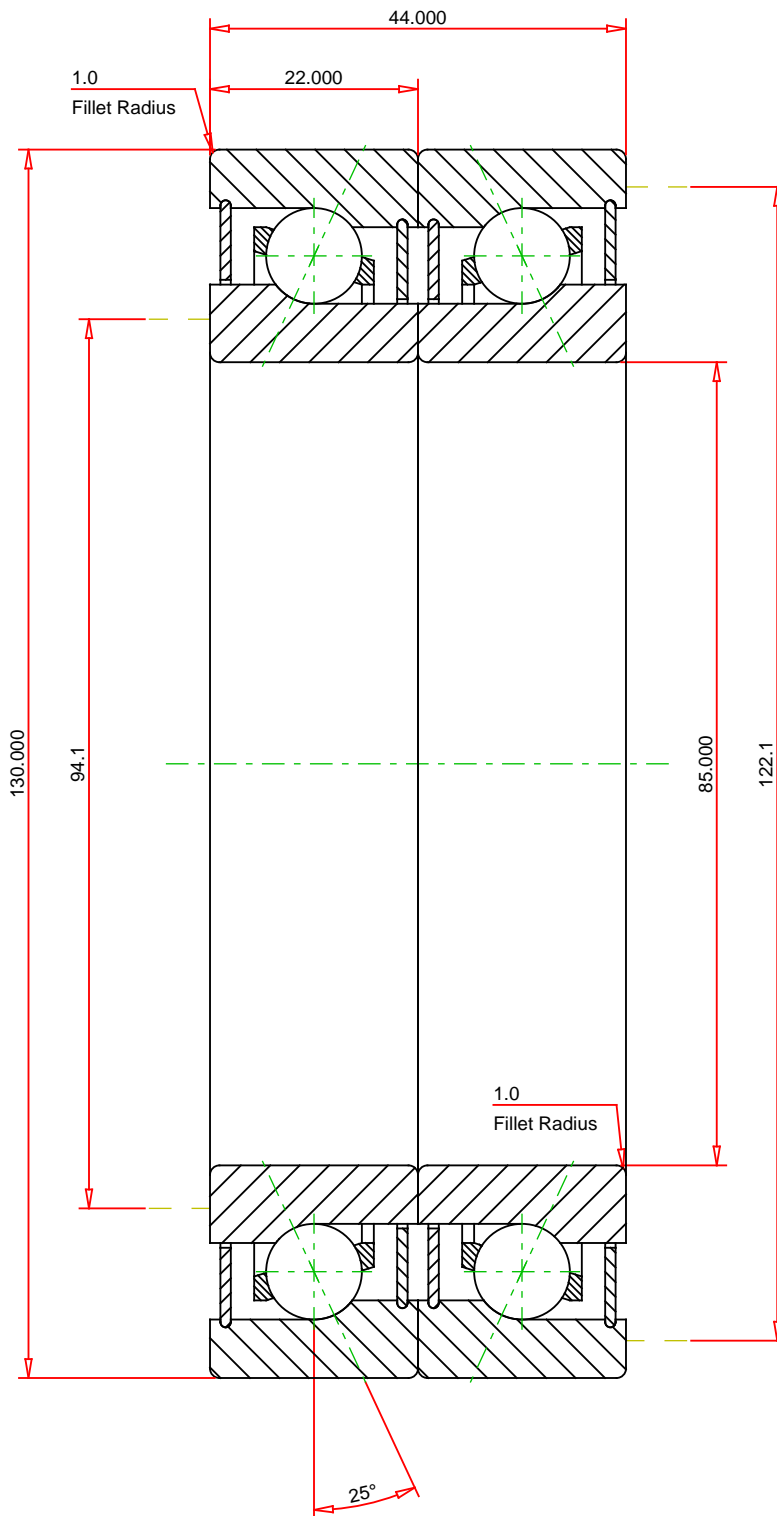
R - Inner Ring "To Clear" Radius²	1 mm 0.039 in
r - Outer Ring "To Clear" Radius³	1 mm 0.039 in
da - Inner Ring Backing Diameter	94.1 mm 3.710 in

Da - Outer Ring Backing Diameter	122.1 mm 4.810 in
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¹ Based on 10^6 revolutions of calculated fatigue life.

² Maximum housing fillet radius that bearing corners will clear.

³ Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row	26
Bearing Weight	1.832 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Dynamic Radial Rating	35000	N
Static Radial Rating	24300	N

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

FOR DISCUSSION ONLY