


The Timken Company

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Part Number 3MMVC9115HXVVDUMFS637, 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.



[Specifications](#) | [Dimensions](#) | [Basic Load Ratings](#) | [Factors](#) | [Abutment and Fillet Dimensions](#)

Specifications

Rows per Set	Duplex
Seal Type	High Speed
Design Units	Metric
d - Bore	75 mm
Ball Type	Ceramic
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	115 mm 4.5276 in
Bearing Width	20 mm 0.7874 in
Total Width	40 mm 1.5748 in
Contact Angle	25 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	17900 N 4020 lbf
Ce - Dynamic Radial Rating (per row)¹	26400 N 5930 lbf
C1 ISO - Dynamic Radial Rating (per row)	24000 N 5390 lbf

Factors

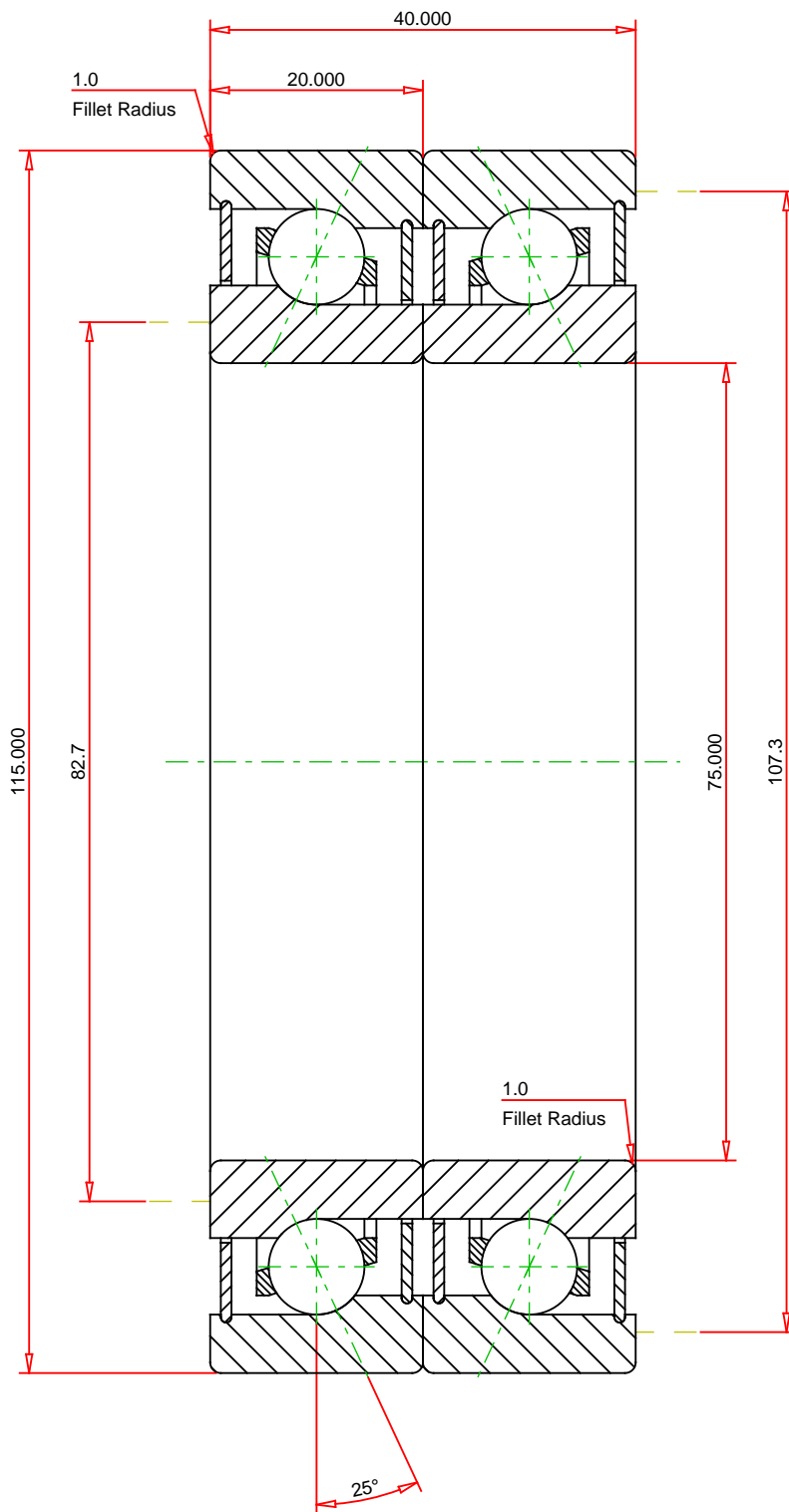
Limiting Speed (Grease) (per row)	15240 rpm
Limiting Speed (Oil)	30480 rpm

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	82.7 mm 3.260 in

Da - Outer Ring Backing Diameter	107.3 mm 4.230 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	1.316 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Dynamic Radial Rating	26400	N
Static Radial Rating	17900	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