


The Timken Company

4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 3MMVC9115HXVVSUMFS637, 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	Single
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	20 mm 0.7874 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

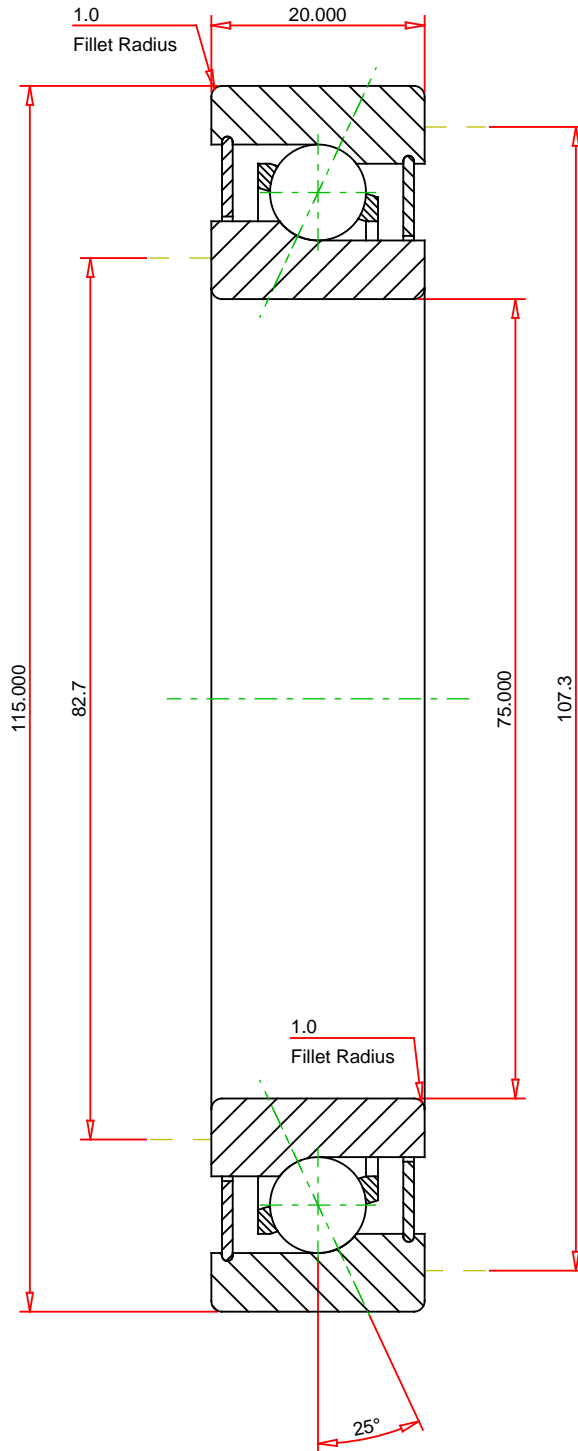
Limiting Speed (Grease) (per row)	15240 rpm
Limiting Speed (Oil)	30480 rpm

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 0.658 kg

TIMKEN®

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 Fafnir® High Speed Spindle Angular Contact Ball
 Bearings (9300HX, 9100HX)

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

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.

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