


**The Timken Company**

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## Part Number 3MMVC9317HXVVSULFS637, 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

<b>Rows per Set</b>	Single
<b>Seal Type</b>	High Speed
<b>Design Units</b>	Metric
<b>d - Bore</b>	85 mm
<b>Ball Type</b>	Ceramic
<b>Cage Type</b>	CR - Phenolic Outer Land Riding Cage

## Dimensions



<b>D - Outer Diameter</b>	120 mm 4.7244 in
<b>Bearing Width</b>	18 mm 0.7087 in
<b>Total Width</b>	18 mm 0.7087 in
<b>Contact Angle</b>	25 °

## Basic Load Ratings

<b>C0 - Static Radial Rating (per row)</b>	15879 N 3570 lbf
<b>Ce - Dynamic Radial Rating (per row)<sup>1</sup></b>	24242 N 5450 lbf
<b>C1 ISO - Dynamic Radial Rating (per row)</b>	26600 N 5990 lbf

## Factors

<b>Limiting Speed (Grease) (per row)</b>	14640 rpm
<b>Limiting Speed (Oil)</b>	29280 rpm

## Abutment and Fillet Dimensions

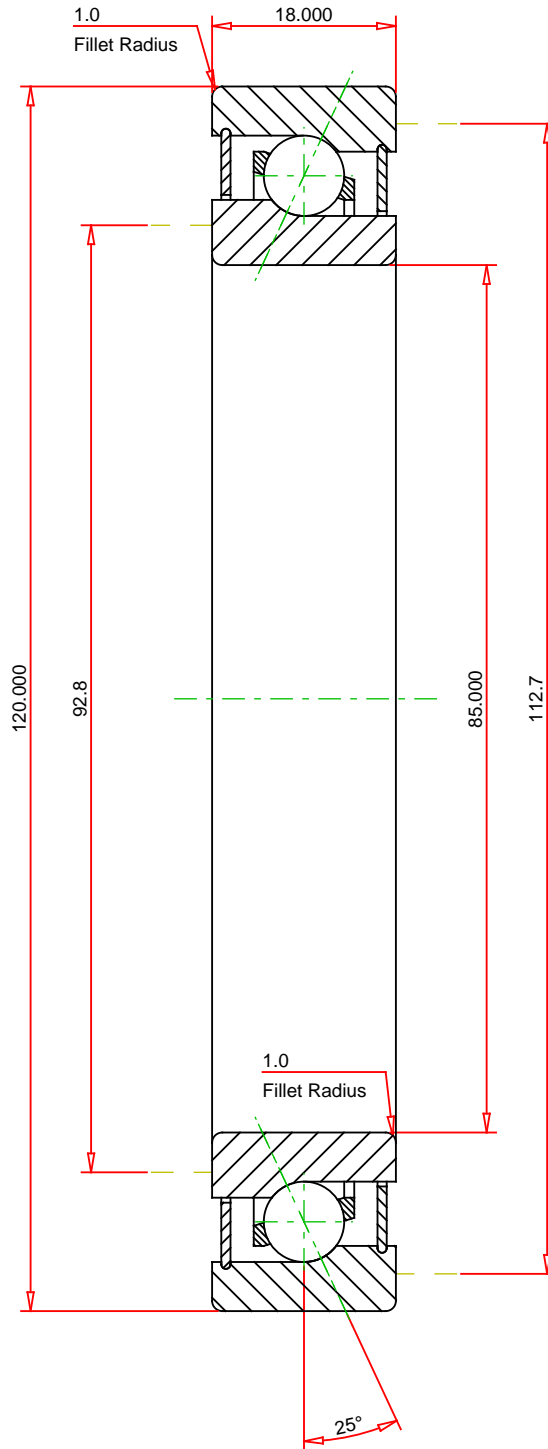
<b>R - Inner Ring "To Clear" Radius<sup>2</sup></b>	1 mm 0.039 in
<b>r - Outer Ring "To Clear" Radius<sup>3</sup></b>	1 mm 0.039 in

<b>da - Inner Ring Backing Diameter</b>	92.8 mm 3.660 in
<b>Da - Outer Ring Backing Diameter</b>	112.7 mm 4.440 in

<sup>1</sup> Based on  $10^6$  revolutions of calculated fatigue life.

<sup>2</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>3</sup> Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row 29  
 Bearing Weight 0.560 kg

**TIMKEN**®

**3MMVC9317HXVVSULFS637**  
 Fafnir® High Speed Spindle Angular Contact Ball  
 Bearings (9300HX, 9100HX)

**THE TIMKEN COMPANY**  
 NORTH CANTON, OHIO USA

Dynamic Radial Rating 24242 N  
 Static Radial Rating 15879 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**