


The Timken Company

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Part Number 2MMV9111HXVVDUMFS637, 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	55 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	90 mm 3.5433 in
Bearing Width	18 mm 0.7087 in
Total Width	36 mm 1.4174 in
Contact Angle	15 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	13500 N 3030 lbf
Ce - Dynamic Radial Rating (per row)¹	19400 N 4360 lbf
C1 ISO - Dynamic Radial Rating (per row)	17600 N 3960 lbf

Factors

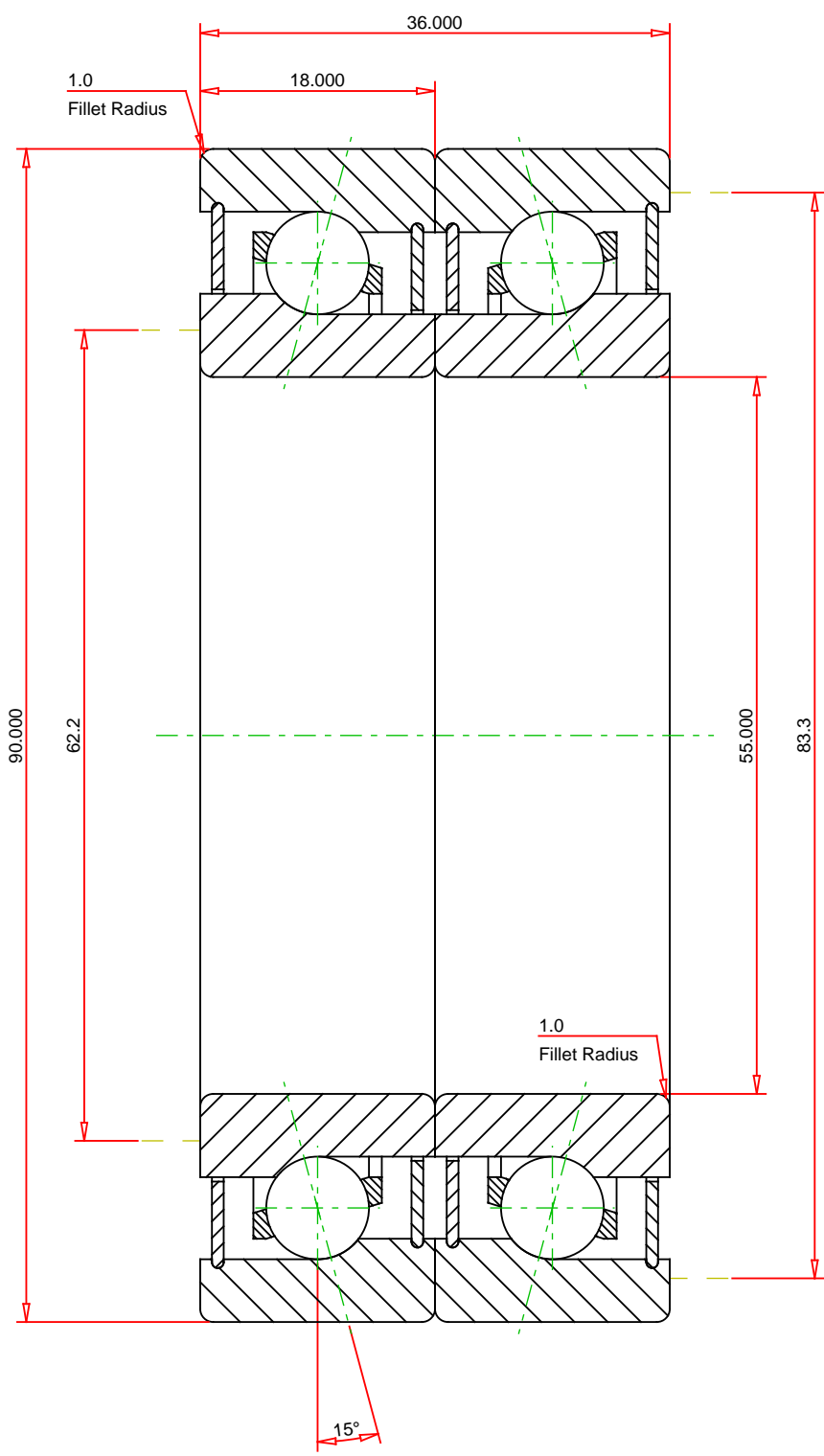
Limiting Speed (Grease) (per row)	18700 rpm
Limiting Speed (Oil)	37400 rpm

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	62.2 mm 2.450 in

Da - Outer Ring Backing Diameter	83.3 mm 3.280 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	24
Bearing Weight	0.798 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Dynamic Radial Rating	19400	N
Static Radial Rating	13500	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