


The Timken Company

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Part Number 2MMV9114HXVVSUMFS637, 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	70 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	110 mm 4.3307 in
Bearing Width	20 mm 0.7874 in
Total Width	20 mm 0.7874 in
Contact Angle	15 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	20400 N 4580 lbf
Ce - Dynamic Radial Rating (per row)¹	27500 N 6180 lbf
C1 ISO - Dynamic Radial Rating (per row)	25000 N 5620 lbf

Factors

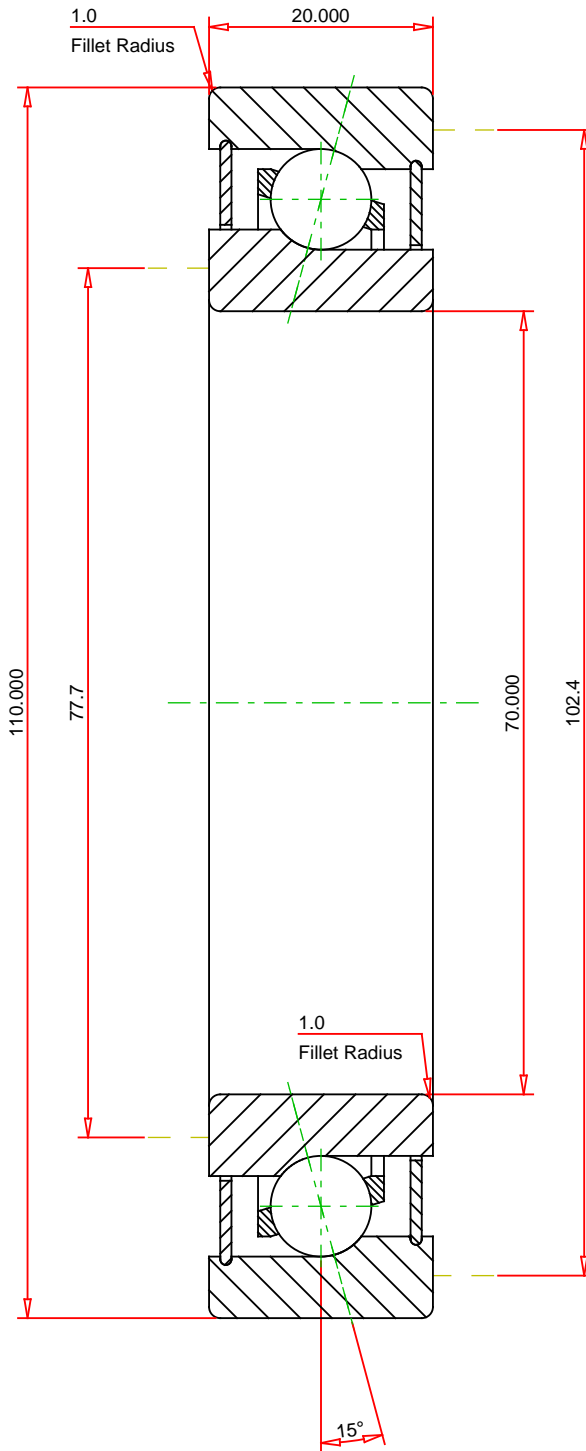
Limiting Speed (Grease) (per row)	15000 rpm
Limiting Speed (Oil)	30000 rpm

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	77.7 mm 3.060 in

Da - Outer Ring Backing Diameter	102.4 mm 4.030 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	25
Bearing Weight	0.626 kg



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NORTH CANTON, OHIO USA

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Dynamic Radial Rating	27500	N
Static Radial Rating	20400	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