


The Timken Company

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Part Number 2MMV9105HXVVSUMFS637, 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	25 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	47 mm 1.8504 in
Bearing Width	12 mm 0.4724 in
Total Width	12 mm 0.4724 in
Contact Angle	15 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	4240 N 950 lbf
Ce - Dynamic Radial Rating (per row)¹	9190 N 2070 lbf
C1 ISO - Dynamic Radial Rating (per row)	8360 N 1880 lbf

Factors

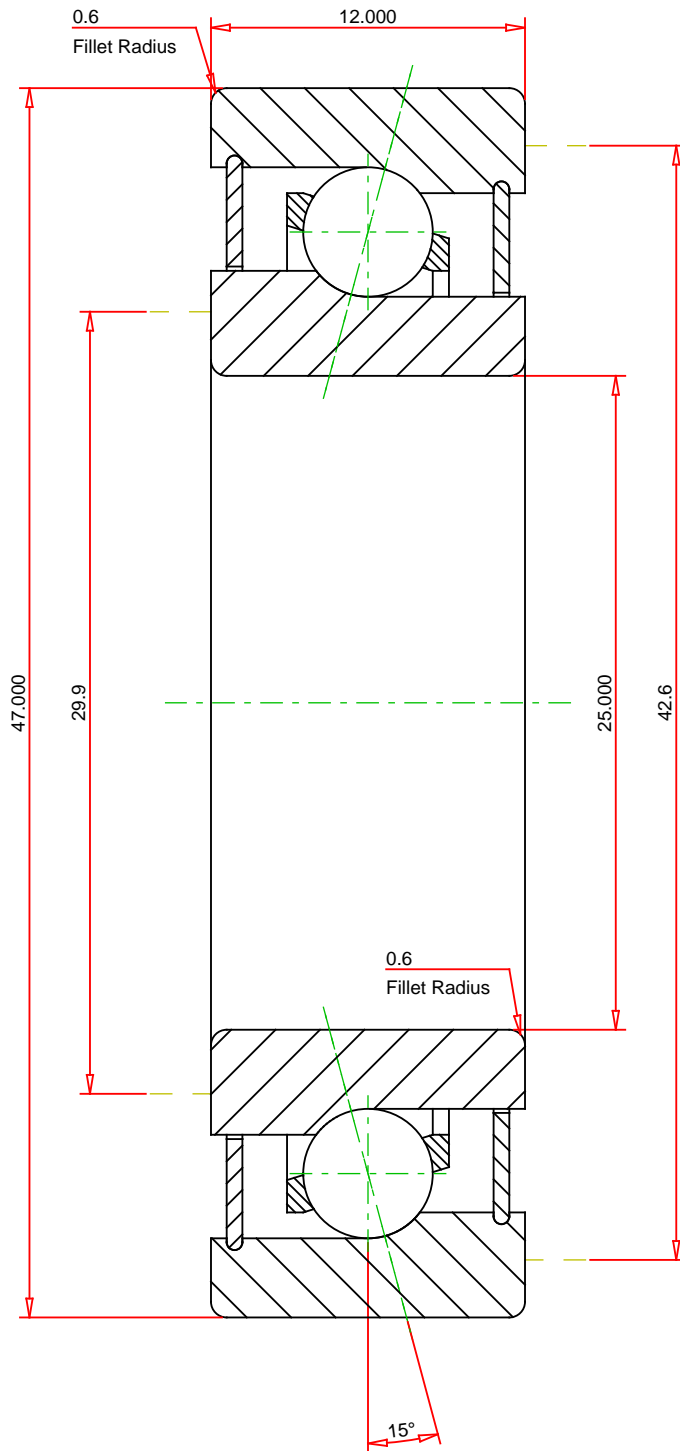
Limiting Speed (Grease) (per row)	40700 rpm
Limiting Speed (Oil)	81400 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	0.6 mm 0.024 in
r - Outer Ring "To Clear" Radius³	0.6 mm 0.024 in
da - Inner Ring Backing Diameter	29.9 mm 1.180 in

Da - Outer Ring Backing Diameter	42.6 mm 1.680 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	13
Bearing Weight	0.073 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Dynamic Radial Rating	9190	N
Static Radial Rating	4240	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