


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 2MMV9104HXVVSULFS637, 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	20 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	42 mm 1.6535 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)	3740 N 840 lbf
Ce - Dynamic Radial Rating (per row)¹	8730 N 1960 lbf
C1 ISO - Dynamic Radial Rating (per row)	7940 N 1780 lbf

Factors

Limiting Speed (Grease) (per row)	48900 rpm
Limiting Speed (Oil)	97800 rpm

Abutment and Fillet Dimensions

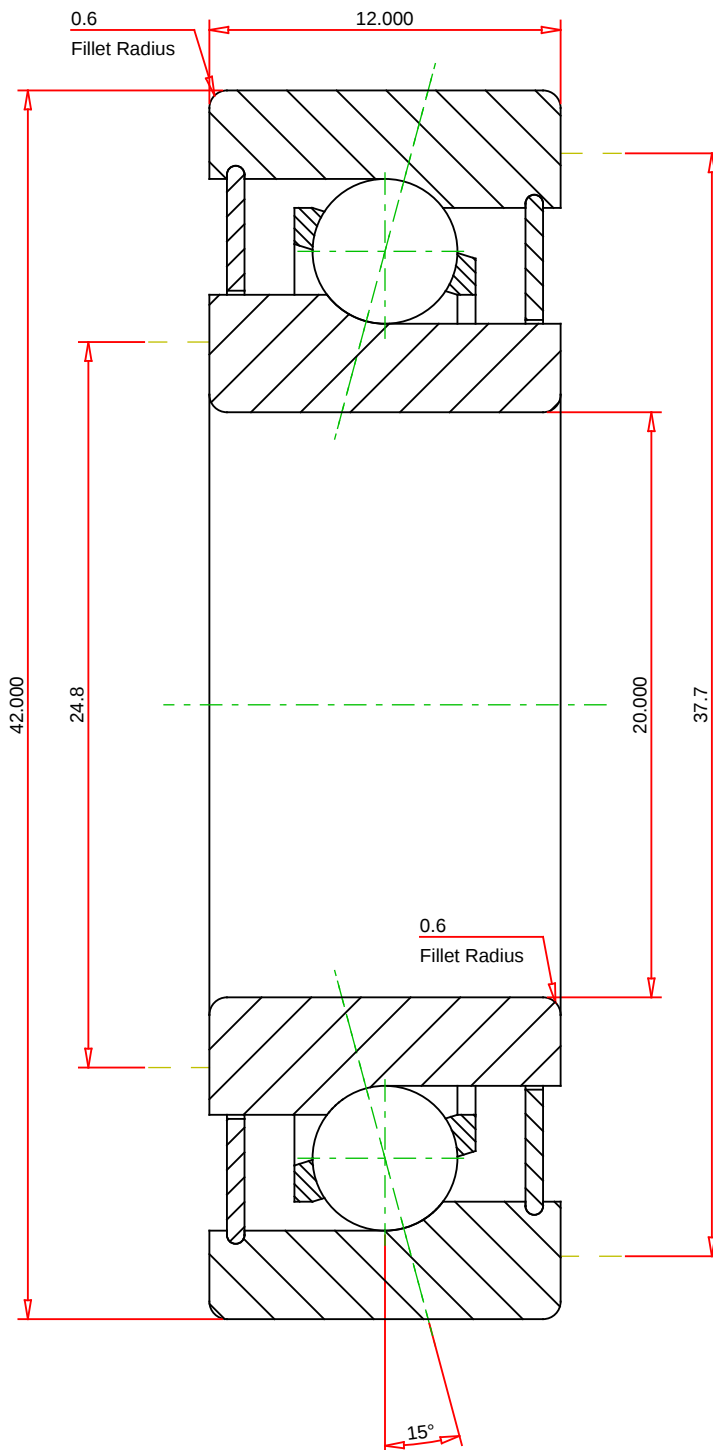
R - Inner Ring "To Clear" Radius²	0.6 mm 0.024 in
r - Outer Ring "To Clear" Radius³	0.6 mm 0.024 in
da - Inner Ring Backing Diameter	24.8 mm 0.980 in

**Da - Outer Ring Backing
Diameter**37.7 mm
1.490 in

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 Bearing Weight	12 0.064 kg	TIMKEN®	2MMV9104HXVVSULFS637	
			Fafnir® High Speed Spindle Angular Contact Ball Bearings (9300HX, 9100HX)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	Dynamic Radial Rating	8730 N
			Static Radial Rating	3740 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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