


The Timken Company

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Part Number 3MMVC9104HXVVSUMFS637, 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	Ceramic
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	42 mm 1.6535 in
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Bearing Width	12 mm 0.4724 in
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Total Width	12 mm 0.4724 in
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Contact Angle	25 °
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Basic Load Ratings

C0 - Static Radial Rating (per row)	3180 N 710 lbf
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Ce - Dynamic Radial Rating (per row)¹	8370 N 1880 lbf
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C1 ISO - Dynamic Radial Rating (per row)	7610 N 1710 lbf
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Factors

Limiting Speed (Grease) (per row)	52800 rpm
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Limiting Speed (Oil)	105600 rpm
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Abutment and Fillet Dimensions

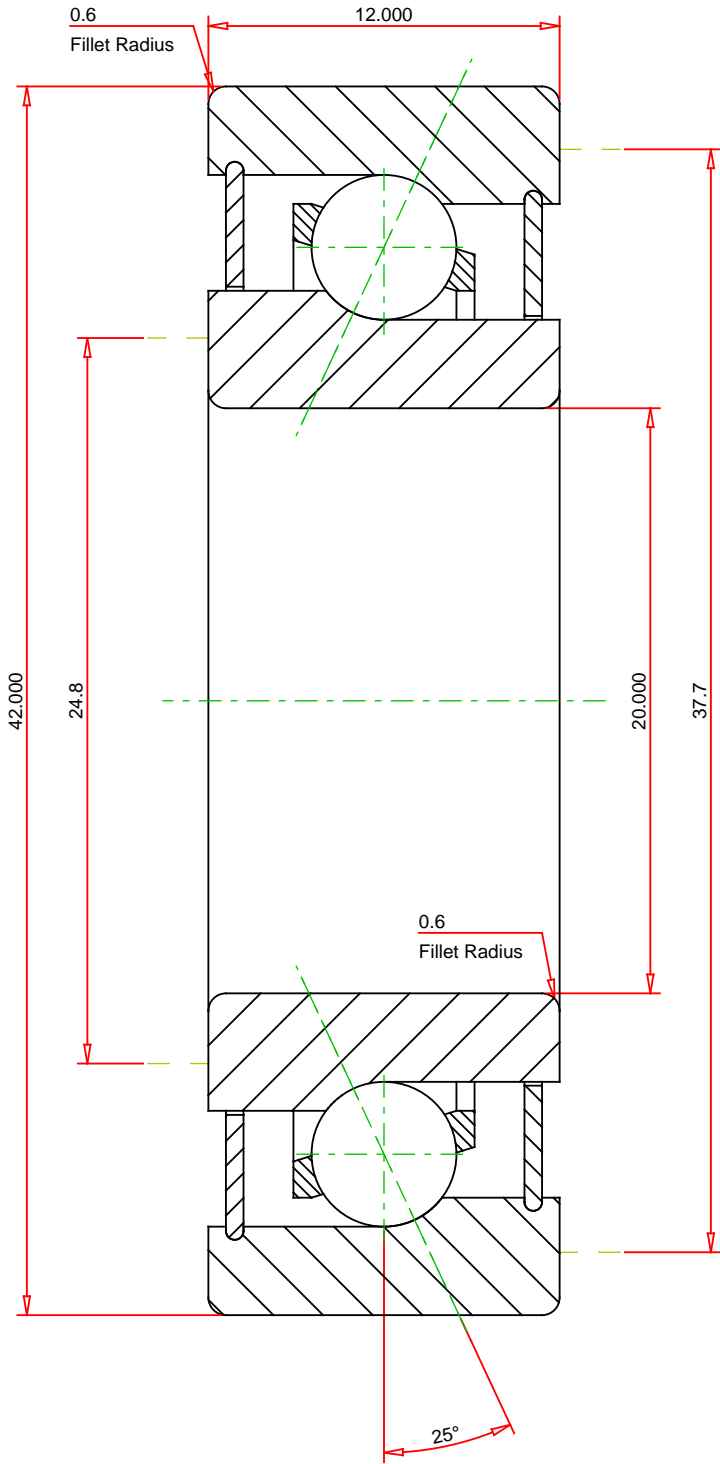
R - Inner Ring "To Clear" Radius²	0.6 mm 0.024 in
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r - Outer Ring "To Clear" Radius³	0.6 mm 0.024 in
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da - Inner Ring Backing Diameter	24.8 mm 0.980 in
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Da - Outer Ring Backing Diameter	37.7 mm 1.490 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	12
Bearing Weight	0.064 kg

TIMKEN®

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NORTH CANTON, OHIO USA

3MMVC9104HXVVSUMFS637	
Fafnir® High Speed Spindle Angular Contact Ball Bearings (9300HX, 9100HX)	
Dynamic Radial Rating	8370 N
Static Radial Rating	3180 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