


The Timken Company

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Part Number 3MMV9120HXVVDUMFS637, 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.



[Specifications](#) | [Dimensions](#) | [Basic Load Ratings](#) | [Factors](#) | [Abutment and Fillet Dimensions](#)

Specifications

Rows per Set	Duplex
Seal Type	High Speed
Design Units	Metric
d - Bore	100 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	150 mm 5.9055 in
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Bearing Width	24 mm 0.9449 in
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Total Width	48 mm 1.8898 in
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Contact Angle	25 °
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Basic Load Ratings

C0 - Static Radial Rating (per row)	37000 N 8330 lbf
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Ce - Dynamic Radial Rating (per row)¹	45500 N 10200 lbf
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C1 ISO - Dynamic Radial Rating (per row)	41400 N 9270 lbf
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Factors

Limiting Speed (Grease) (per row)	9700 rpm
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Limiting Speed (Oil)	19400 rpm
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Abutment and Fillet Dimensions

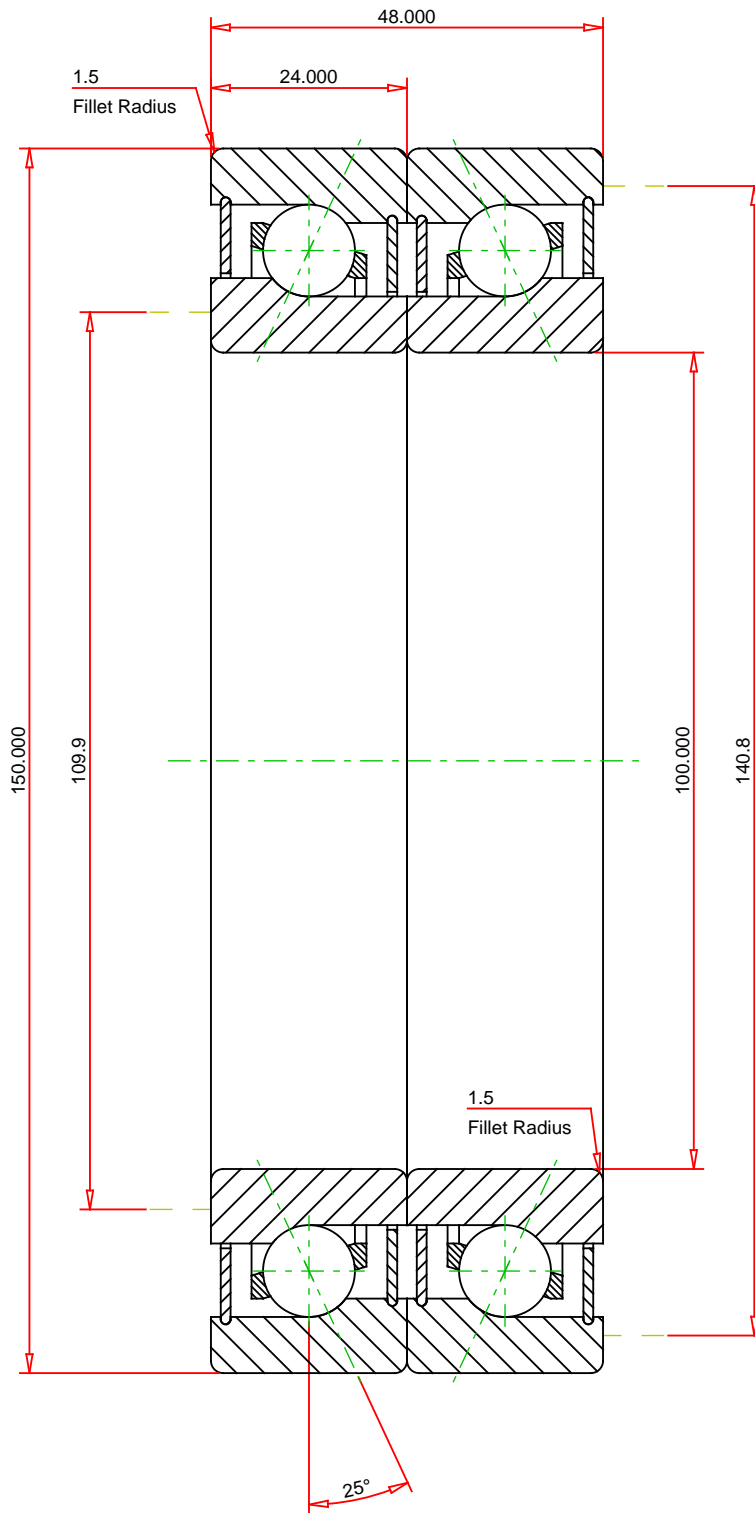
R - Inner Ring "To Clear" Radius²	1.5 mm 0.059 in
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r - Outer Ring "To Clear" Radius³	1.5 mm 0.059 in
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da - Inner Ring Backing Diameter	109.9 mm 4.330 in
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Da - Outer Ring Backing Diameter	140.8 mm 5.550 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 27
 Bearing Weight 2.576 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

3MMV9120HXVVDUMFS637
 Fafnir® High Speed Spindle Angular Contact Ball Bearings (9300HX, 9100HX)

Dynamic Radial Rating 45500 N
 Static Radial Rating 37000 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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