


The Timken Company

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Part Number 3MMV9124HXVVDULFS637, 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	Duplex
Seal Type	High Speed
Design Units	Metric
d - Bore	120 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	180 mm 7.0866 in
Bearing Width	28 mm 1.1024 in
Total Width	56 mm 2.2048 in
Contact Angle	25 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	50200 N 11300 lbf
Ce - Dynamic Radial Rating (per row)¹	58100 N 13100 lbf
C1 ISO - Dynamic Radial Rating (per row)	52800 N 11900 lbf

Factors

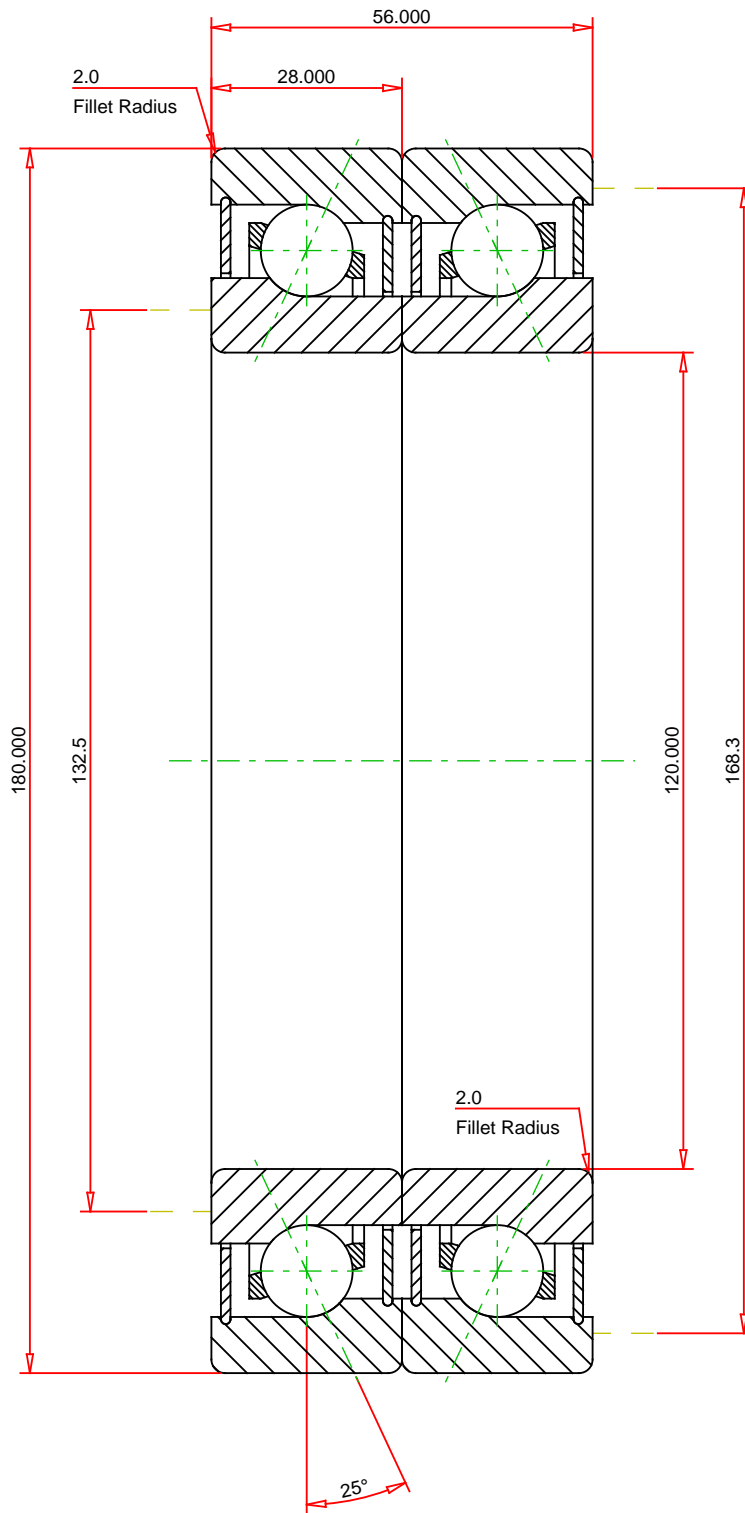
Limiting Speed (Grease) (per row)	8030 rpm
Limiting Speed (Oil)	16060 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	2 mm 0.079 in
r - Outer Ring "To Clear" Radius³	2 mm 0.079 in
da - Inner Ring Backing Diameter	132.5 mm 5.220 in

Da - Outer Ring Backing Diameter	168.3 mm 6.630 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 29
 Bearing Weight 4.436 kg

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THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

Dynamic Radial Rating 58100 N
 Static Radial Rating 50200 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