


The Timken Company

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Part Number 3MMVC9107HXVVSUMFS637, 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	35 mm
Ball Type	Ceramic
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	62 mm 2.4409 in
Bearing Width	14 mm 0.5512 in
Total Width	14 mm 0.5512 in
Contact Angle	25 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	6620 N 1490 lbf
Ce - Dynamic Radial Rating (per row)¹	14300 N 3220 lbf
C1 ISO - Dynamic Radial Rating (per row)	13000 N 2930 lbf

Factors

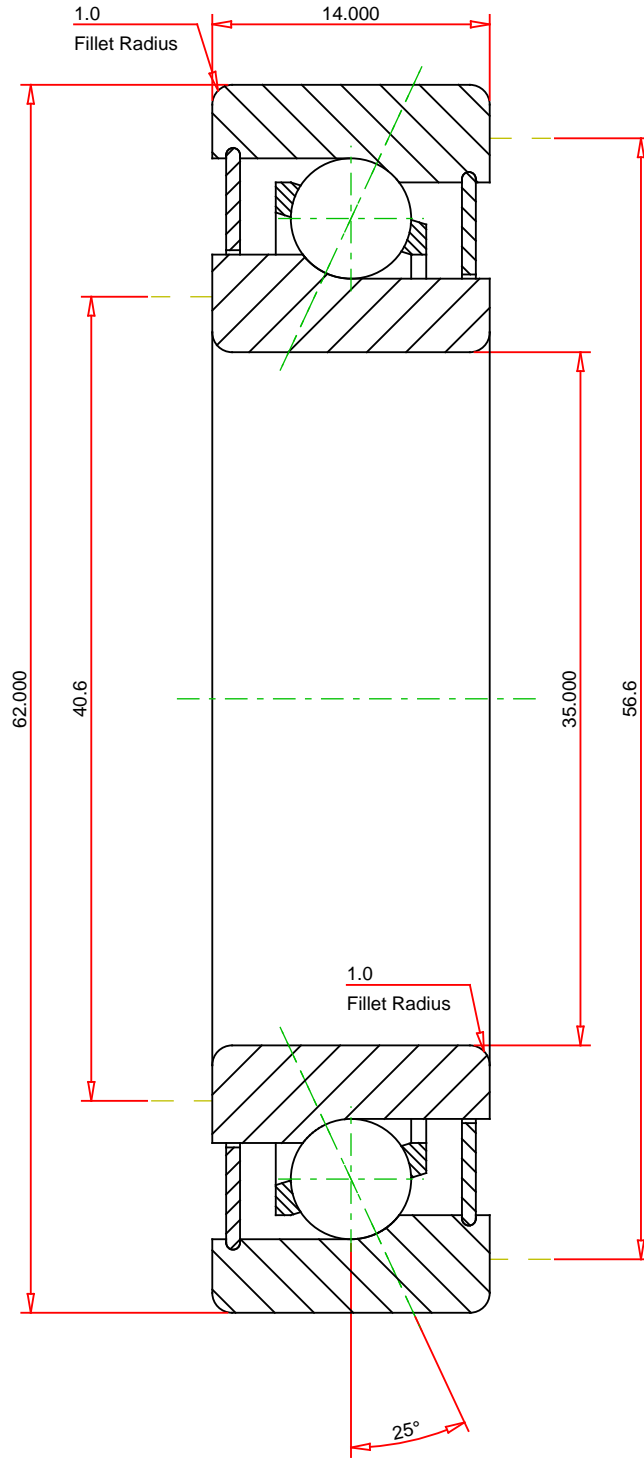
Limiting Speed (Grease) (per row)	32160 rpm
Limiting Speed (Oil)	64320 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1 mm 0.039 in
r - Outer Ring "To Clear" Radius³	1 mm 0.039 in
da - Inner Ring Backing Diameter	40.6 mm 1.600 in

Da - Outer Ring Backing Diameter	56.6 mm 2.230 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 15
 Bearing Weight 0.145 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

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Dynamic Radial Rating 14300 N
 Static Radial Rating 6620 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