


The Timken Company

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Part Number 2MMVC9112HXVVDUMFS637, 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	60 mm
Ball Type	Ceramic
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	95 mm 3.7402 in
Bearing Width	18 mm 0.7087 in
Total Width	36 mm 1.4174 in
Contact Angle	15 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	12600 N 2840 lbf
Ce - Dynamic Radial Rating (per row)¹	19700 N 4420 lbf
C1 ISO - Dynamic Radial Rating (per row)	17900 N 4020 lbf

Factors

Limiting Speed (Grease) (per row)	20880 rpm
Limiting Speed (Oil)	41760 rpm

Abutment and Fillet Dimensions

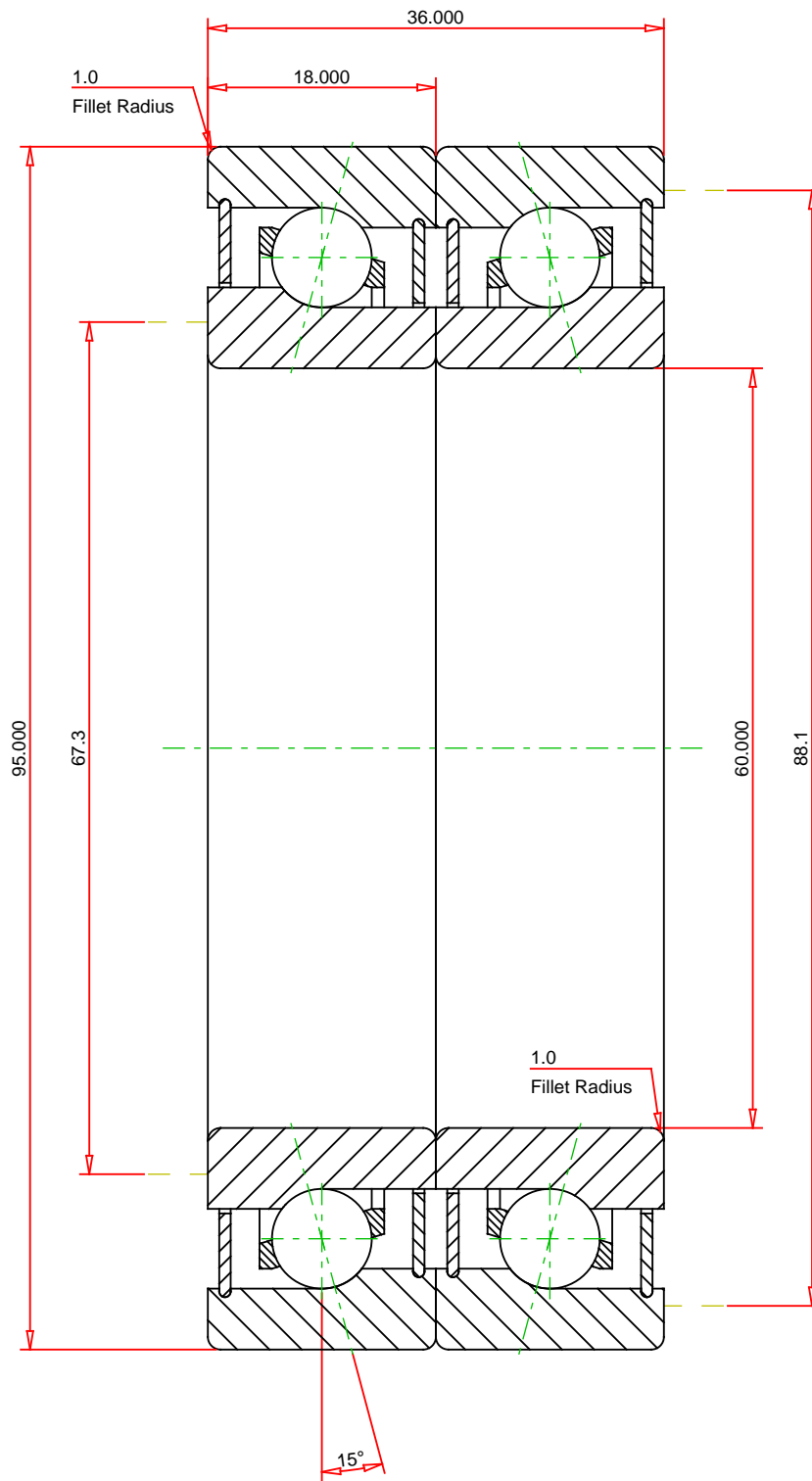
R - Inner Ring "To Clear" Radius²	1 mm 0.039 in
r - Outer Ring "To Clear" Radius³	1 mm 0.039 in
da - Inner Ring Backing Diameter	67.3 mm 2.650 in

Da - Outer Ring Backing Diameter	88.1 mm 3.470 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 25
 Bearing Weight 0.852 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

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Dynamic Radial Rating 19700 N
 Static Radial Rating 12600 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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