


The Timken Company

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Part Number 3MMVC9113HXVVDUMFS637, 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	65 mm
Ball Type	Ceramic
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	100 mm 3.937 in
Bearing Width	18 mm 0.7087 in
Total Width	36 mm 1.4174 in
Contact Angle	25 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	14400 N 3240 lbf
Ce - Dynamic Radial Rating (per row)¹	22200 N 4990 lbf
C1 ISO - Dynamic Radial Rating (per row)	20200 N 4540 lbf

Factors

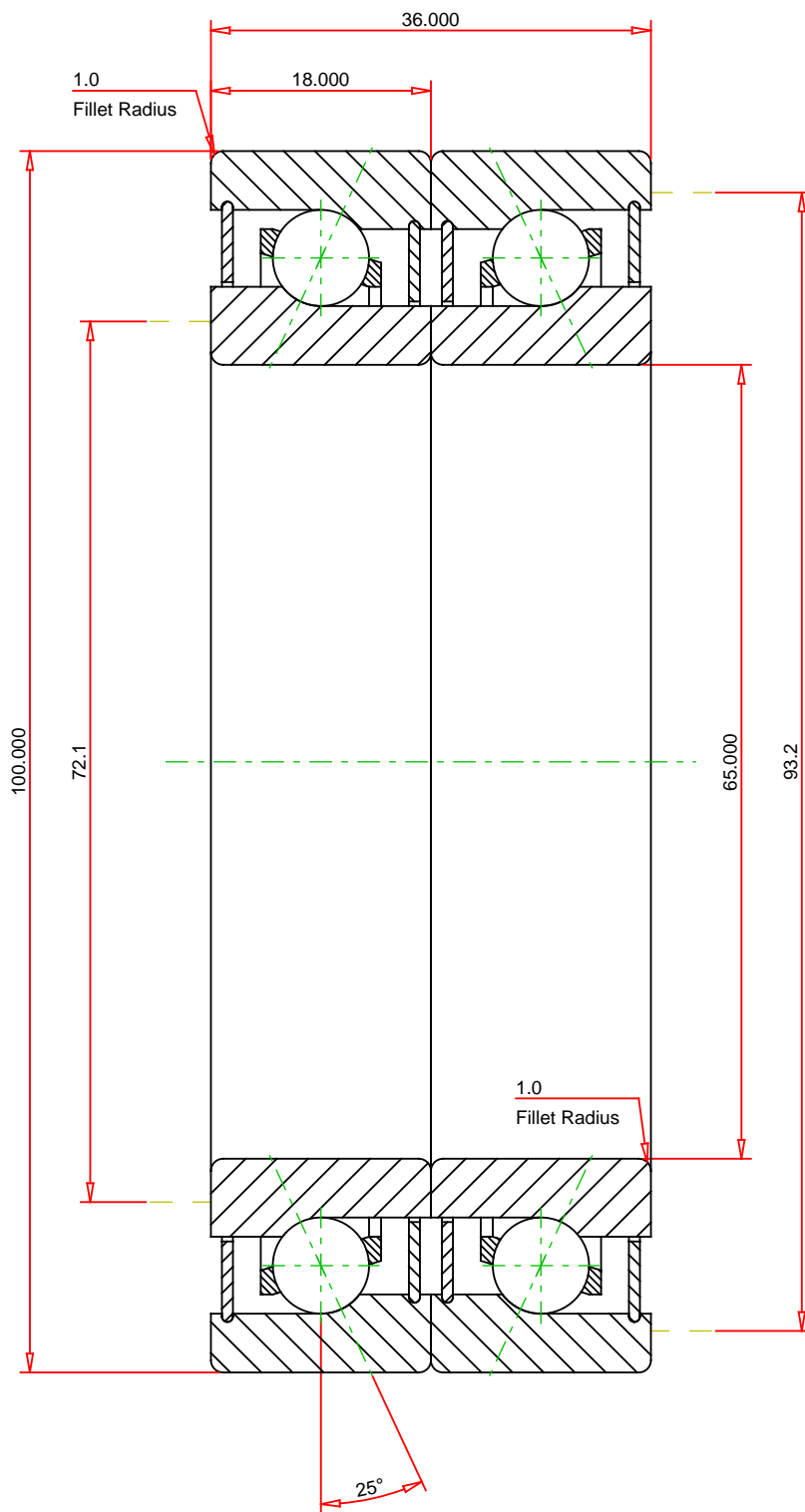
Limiting Speed (Grease) (per row)	17760 rpm
Limiting Speed (Oil)	35520 rpm

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	72.1 mm 2.840 in

Da - Outer Ring Backing Diameter	93.2 mm 3.670 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	0.890 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Dynamic Radial Rating	22200	N
Static Radial Rating	14400	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