


The Timken Company

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Part Number 3MMVC9109HXVVSULFS934, 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	45 mm
Ball Type	Ceramic
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	75 mm 2.9528 in
Bearing Width	16 mm 0.6299 in
Total Width	16 mm 0.6299 in
Contact Angle	25 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	9590 N 2160 lbf
Ce - Dynamic Radial Rating (per row)¹	19800 N 4460 lbf
C1 ISO - Dynamic Radial Rating (per row)	18000 N 4060 lbf

Factors

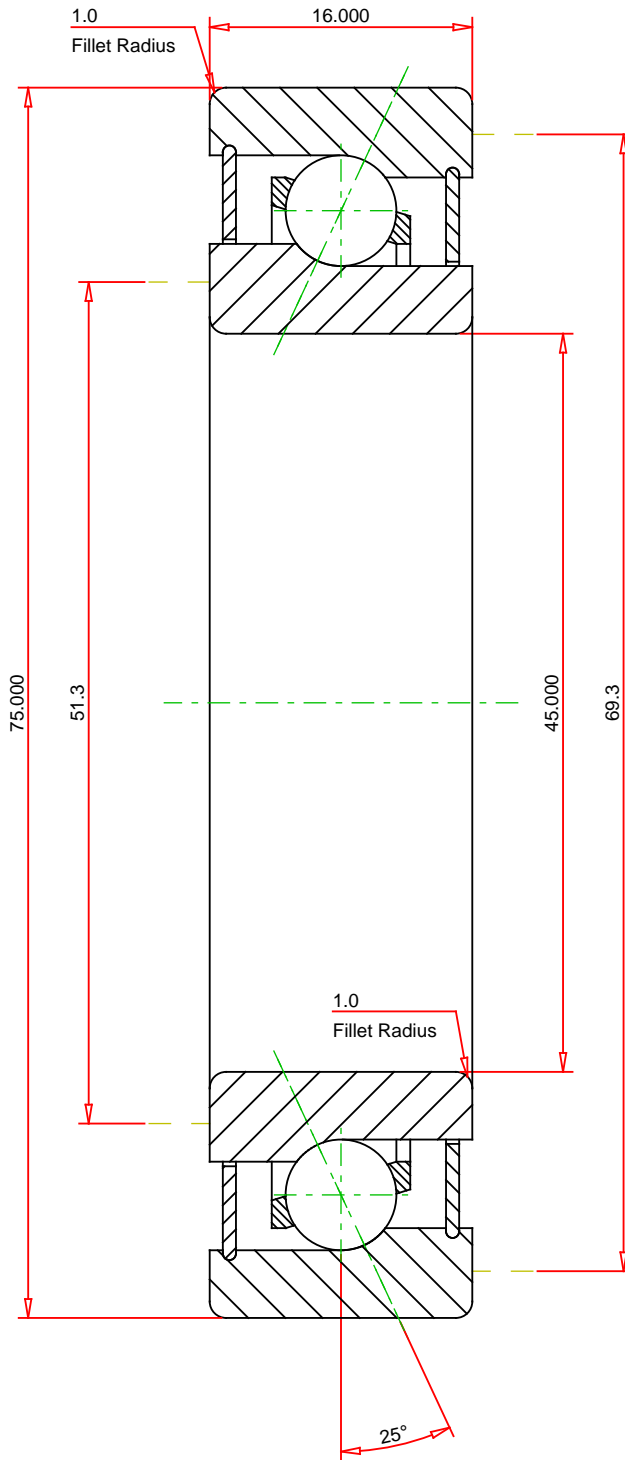
Limiting Speed (Grease) (per row)	25800 rpm
Limiting Speed (Oil)	51600 rpm

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	51.3 mm 2.020 in

Da - Outer Ring Backing Diameter	69.3 mm 2.730 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 0.218 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

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

Dynamic Radial Rating 19800 N
 Static Radial Rating 9590 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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