


The Timken Company

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Part Number 3MMV9310HXVVDULFS637, 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	50 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage

Dimensions



D - Outer Diameter	72 mm 2.8346 in
Bearing Width	12 mm 0.4724 in
Total Width	24 mm 0.9448 in
Contact Angle	25 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	7072 N 1590 lbf
Ce - Dynamic Radial Rating (per row)¹	11031 N 2480 lbf
C1 ISO - Dynamic Radial Rating (per row)	12900 N 2890 lbf

Factors

Limiting Speed (Grease) (per row)	20600 rpm
Limiting Speed (Oil)	41200 rpm

Abutment and Fillet Dimensions

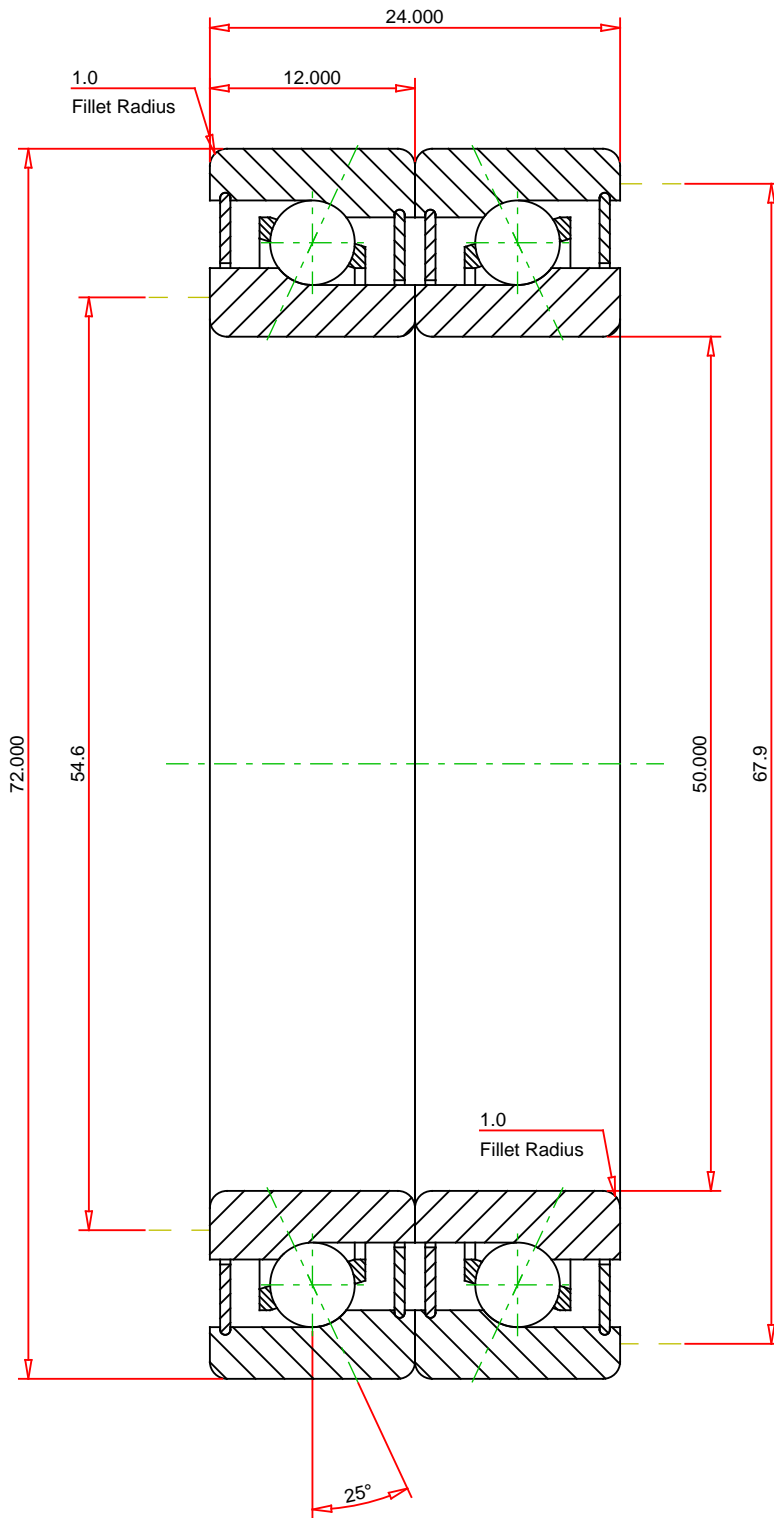
R - Inner Ring "To Clear" Radius²	1 mm 0.039 in
r - Outer Ring "To Clear" Radius³	1 mm 0.039 in

da - Inner Ring Backing Diameter	54.6 mm 2.150 in
Da - Outer Ring Backing Diameter	67.9 mm 2.670 in

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 0.280 kg

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THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

Dynamic Radial Rating 11031 N
 Static Radial Rating 7072 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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