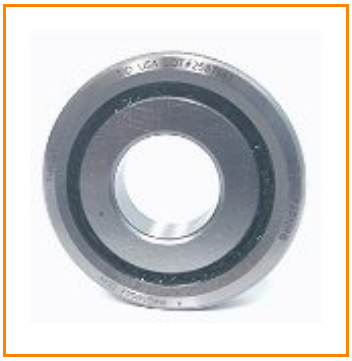
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Timken Part Number MM9316WI3H, Fafnir® Single Row Imperial Ball Screw Support Bearings (MM9-H)

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.



Dimensions | Basic Load Ratings | Factors | Specifications | Abutment and Fillet Dimensions

Dimensions

d - Bore	76.200 mm 3.0000 in
D - Outer Diameter	110.000 mm 4.3307 in
Bearing Width	15.880 mm 0.6250 in
Contact Angle	60 º
do - Ball Diameter	8.70000 mm 0.34375 in

Basic Load Ratings

C0 - Static Radial Rating	77000 N 17300 lbf
Ce - Dynamic Radial Rating[1]	44500 N 10000 lbf

Factors

Limiting Speed (Grease)	1400 rpm
Limiting Speed (Oil)	2800 rpm

Specifications

Ball Type	Steel
Cage Type	Nylon Ball Riding Cage
Bearing Weight	0.470 Kg 1.04 lb
Design Units	METRIC

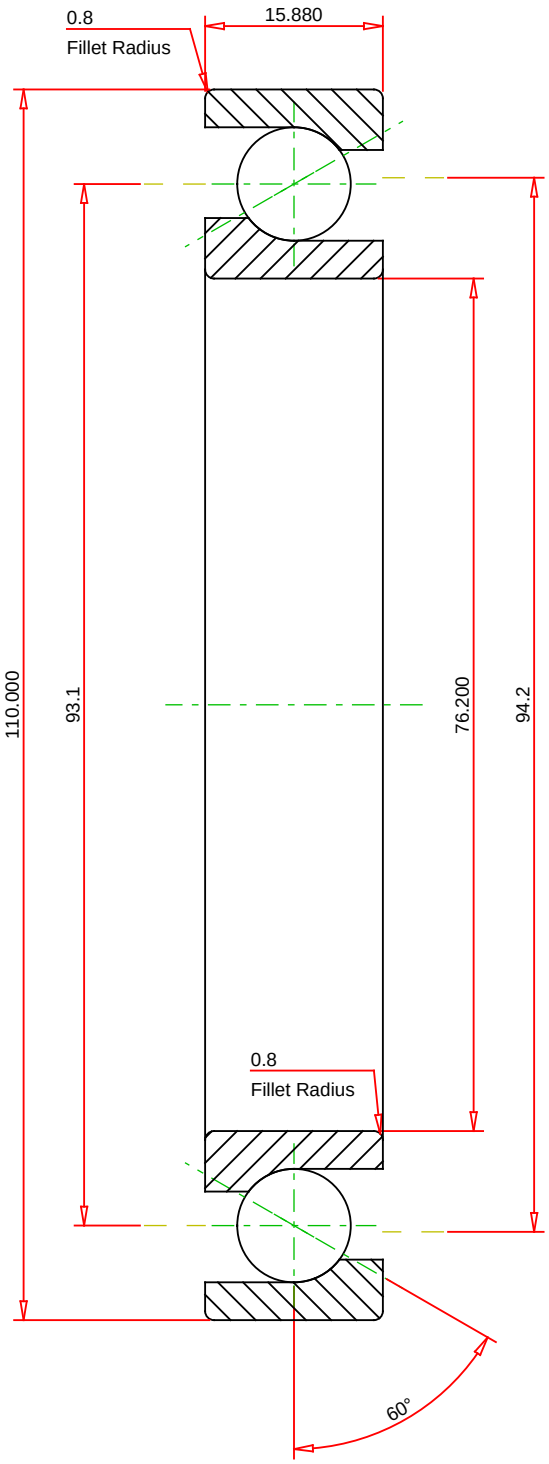
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	0.800 mm 0.031 in
r - Outer Ring "To Clear" Radius[3]	0.800 mm 0.031 in
da - Inner Ring Backing Diameter	93.091 mm 3.665 in
Da - Outer Ring Backing Diameter	94.219 mm 3.7094 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	30	
Bearing Weight	0.470	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM9316WI3H

Fafnir® Single Row Imperial Ball Screw Support Bearings (MM9-H)

Dynamic Radial Rating	44500	N
Static Radial Rating	77000	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