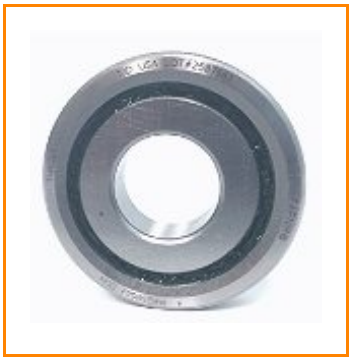
The Timken Company
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Timken Part Number MM40BS72, Fafnir® Single Row Ball Screw Support Bearings (MM-BS)

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	40.000 mm 15.7480 in
D - Outer Diameter	72.000 mm 28.3460 in
Bearing Width	15.000 mm 0.5906 in
Contact Angle	60 º
do - Ball Diameter	8.70000 mm 0.34375 in

Basic Load Ratings

C0 - Static Radial Rating	45400 N 10200 lbf

Ce - Dynamic Radial Rating[1]	36300 N 8160 lbf

Factors

Limiting Speed (Grease)	2900 rpm
Limiting Speed (Oil)	5800 rpm

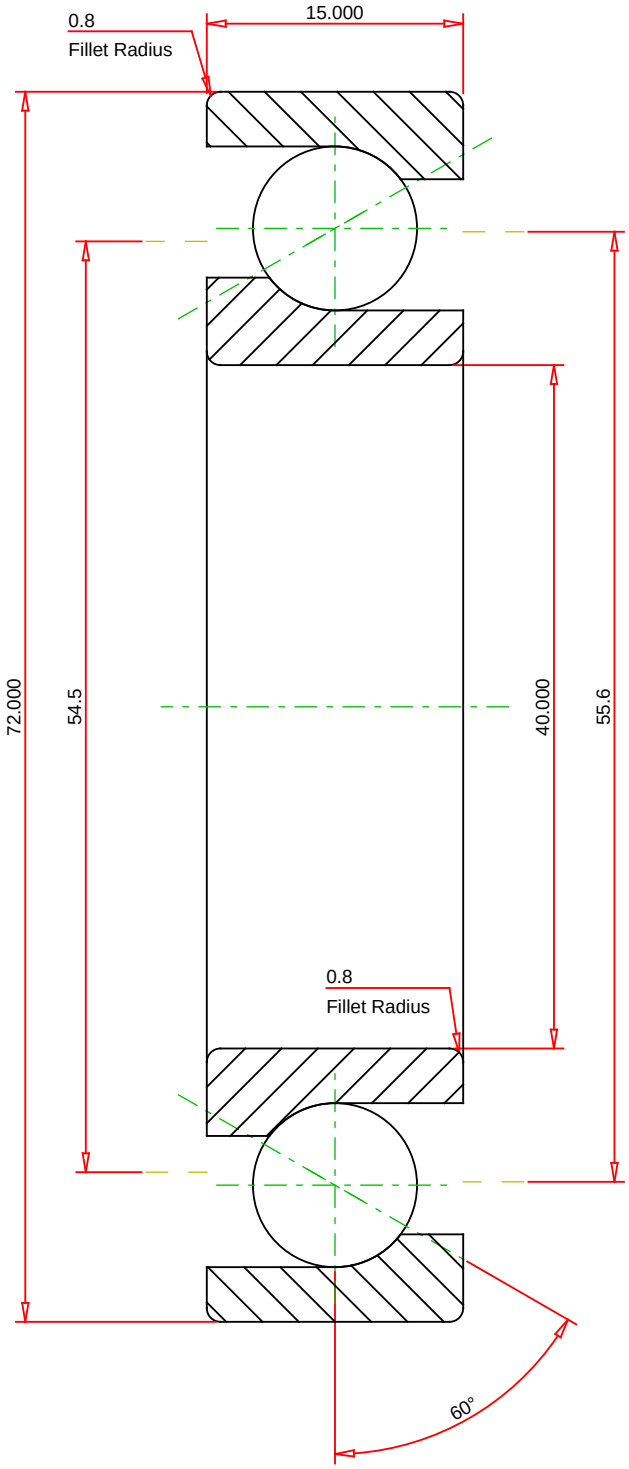
Specifications

Ball Type	Steel
Cage Type	Nylon Ball Riding Cage
Bearing Weight	0.250 Kg 0.55 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	54.483 mm 2.145 in
Da - Outer Ring Backing Diameter	55.611 mm 2.1894 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	18	
Bearing Weight	0.250	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM40BS72

Fafnir® Single Row Ball Screw Support Bearings
(MM-BS)

Dynamic Radial Rating	36300	N
Static Radial Rating	45400	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