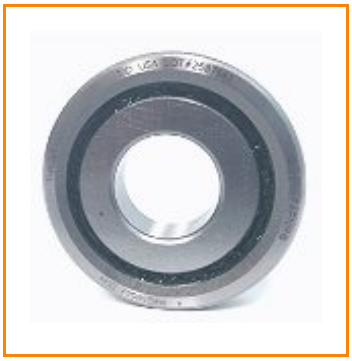
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Timken Part Number MM45BS75, 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	45.000 mm 17.7170 in
D - Outer Diameter	75.000 mm 29.5280 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	50700 N 11400 lbf

Ce - Dynamic Radial Rating[1]	38500 N 8660 lbf

Factors

Limiting Speed (Grease)	2700 rpm
Limiting Speed (Oil)	5400 rpm

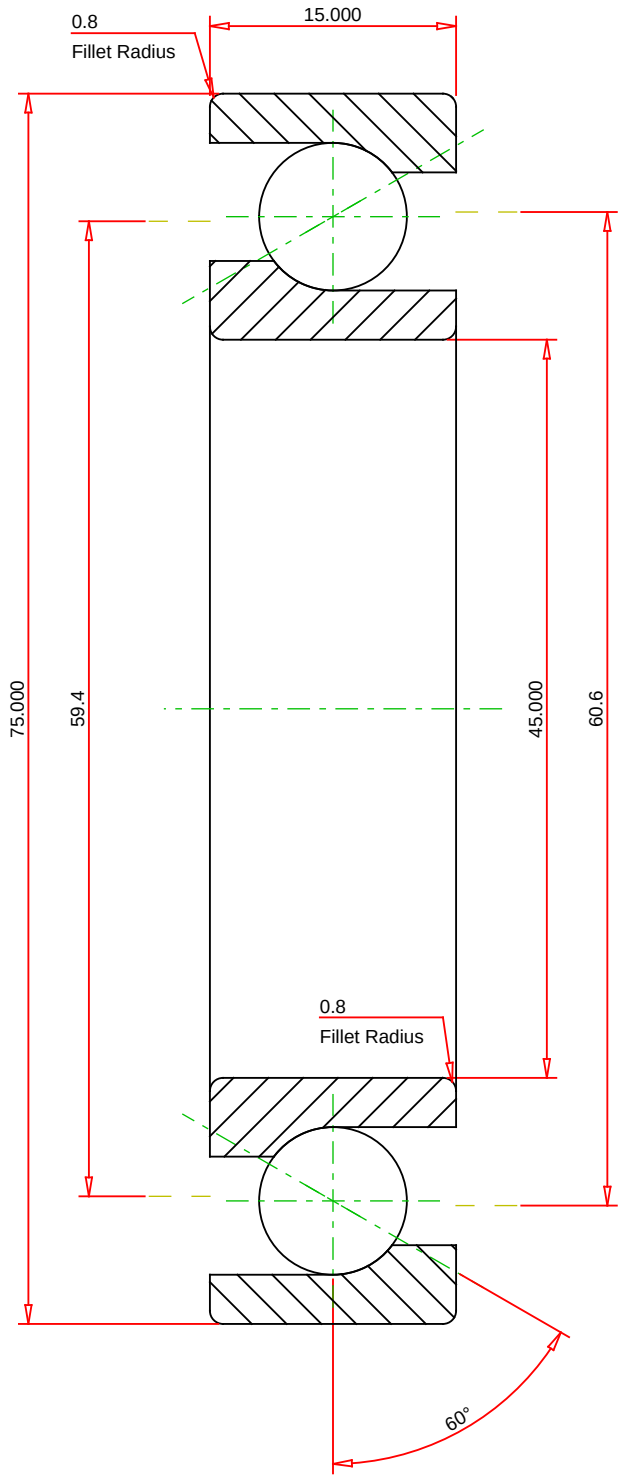
Specifications

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	59.441 mm 2.3402 in
Da - Outer Ring Backing Diameter	60.569 mm 2.3846 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	20	
Bearing Weight	0.250	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM45BS75

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

Dynamic Radial Rating	38500	N
Static Radial Rating	50700	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