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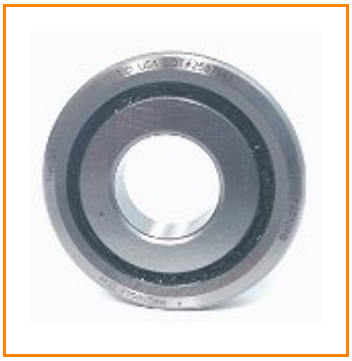
Timken Part Number MM25BS52, Fafnir® Single Row Ball Screw Support Bearings (MM-BS)

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	25.000 mm 0.9843 in
D - Outer Diameter	52.000 mm 20.4720 in
Bearing Width	15.000 mm 0.5906 in
Contact Angle	60 º
do - Ball Diameter	7.900000 mm 0.15625 in

Basic Load Ratings

C0 - Static Radial Rating	27100 N 6100 lbf

Ce - Dynamic Radial Rating[1]	26000 N 5850 lbf

Factors

Limiting Speed (Grease)	4300 rpm
Limiting Speed (Oil)	8600 rpm

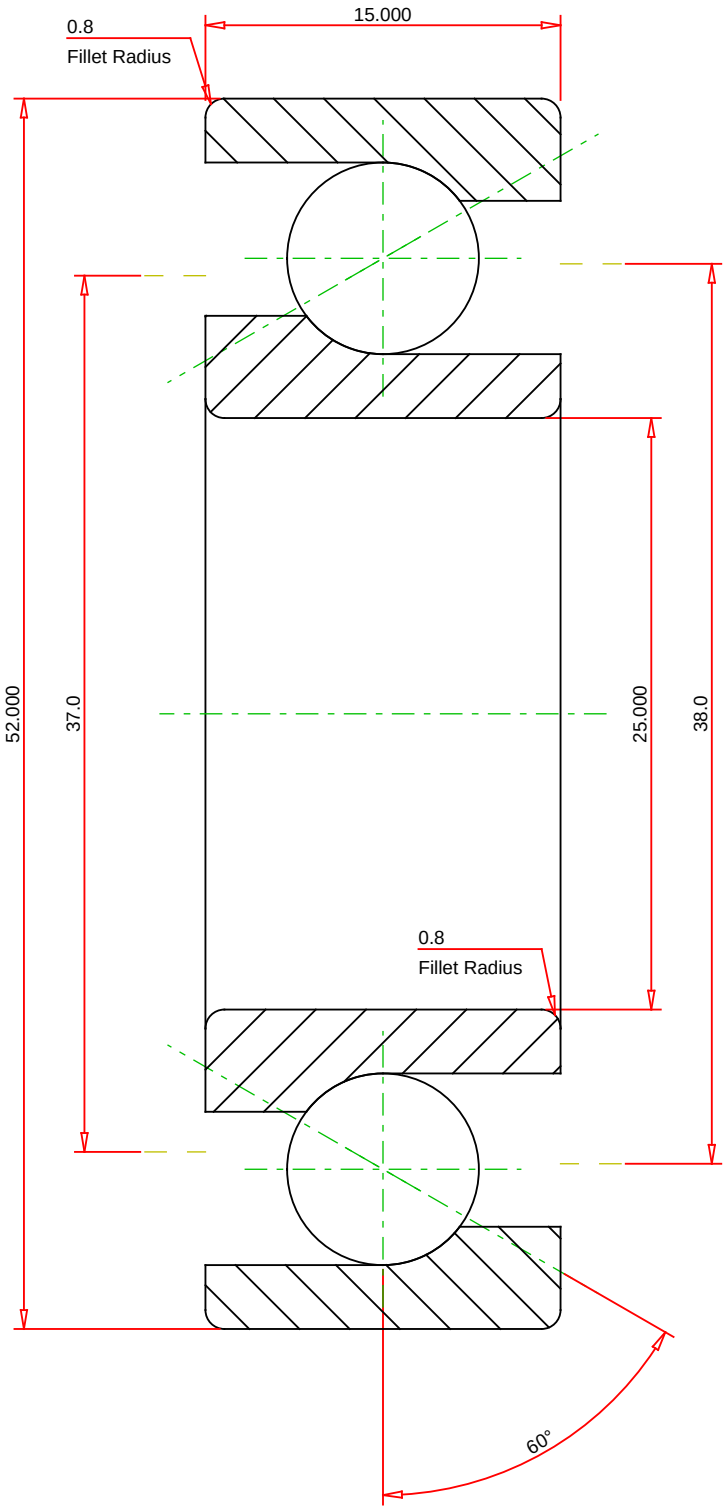
Specifications

Ball Type	Steel
Cage Type	Nylon Ball Riding Cage
Bearing Weight	0.140 Kg 0.37 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	37.033 mm 1.458 in
Da - Outer Ring Backing Diameter	38.034 mm 1.4974 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	13	
Bearing Weight	0.140	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM25BS52

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

Dynamic Radial Rating	26000	N
Static Radial Rating	27100	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