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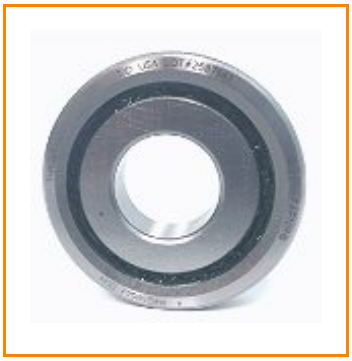
Timken Part Number MM17BS47, Fafnir® Single Row Ball Screw Support Bearings (MM-BS)

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	17.000 mm 0.6693 in
D - Outer Diameter	47.000 mm 18.5040 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	24900 N 5600 lbf

Ce - Dynamic Radial Rating[1]	24900 N 5600 lbf

Factors

Limiting Speed (Grease)	4700 rpm
Limiting Speed (Oil)	9400 rpm

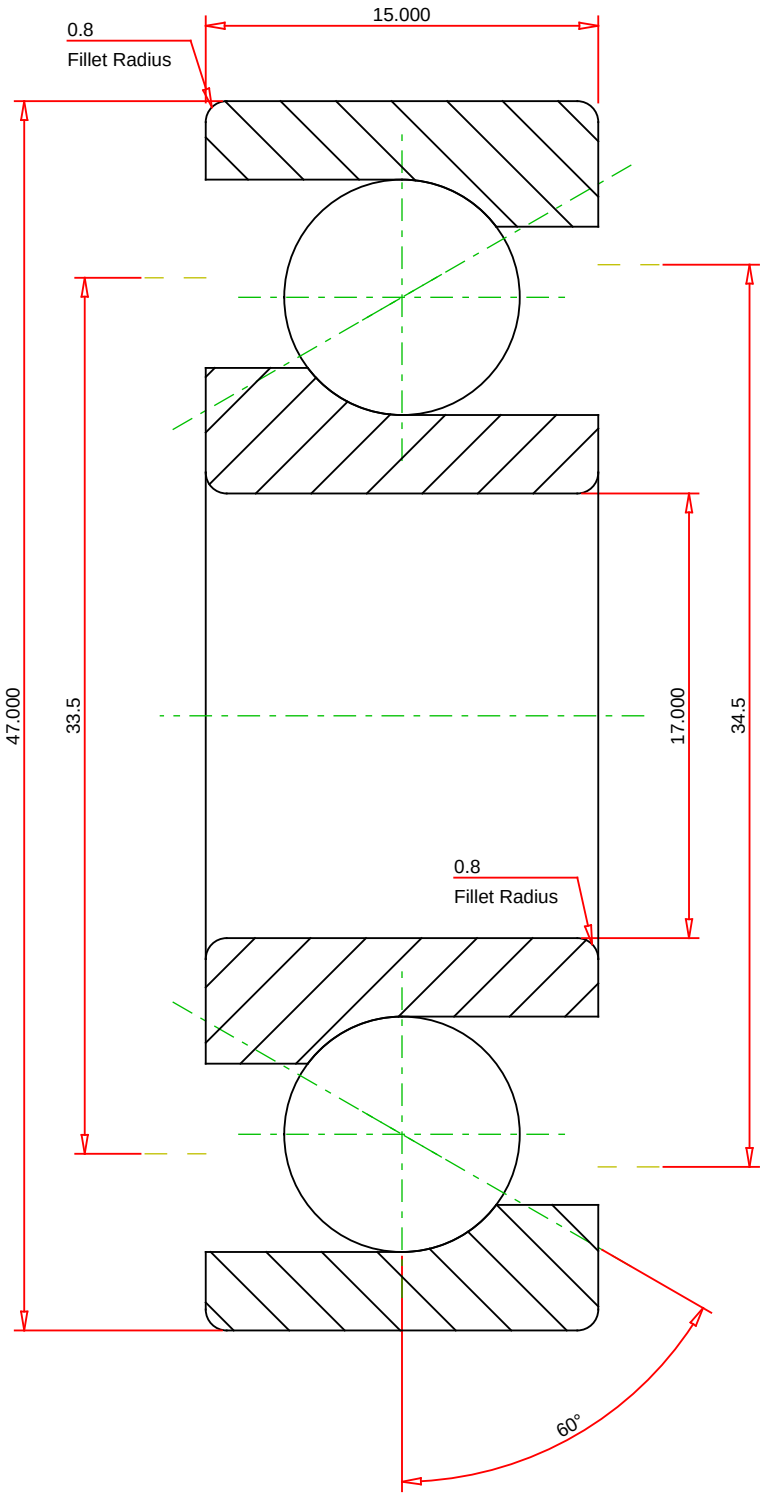
Specifications

Ball Type	Steel
Cage Type	Nylon Ball Riding Cage
Bearing Weight	0.130 Kg 0.29 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	33.492 mm 1.3186 in
Da - Outer Ring Backing Diameter	34.493 mm 1.358 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	12	
Bearing Weight	0.130	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM17BS47

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

Dynamic Radial Rating	24900	N
Static Radial Rating	24900	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