The Timken Company
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Part Number W312PPG, Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)

Radial ball bearings consist of an inner and outer ring with a cage containing a complement of precision balls. The standard Conrad-type bearing has a deep-groove construction capable of handling radial and axial loads from either direction in versatile designs that permit relatively high-speed operation.

In addition to standard single-row deep groove bearings, Timken offers special designs, including a maximum capacity series and an extra large (XLS) radial series bearing.

Size range: 3 mm

more



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

Specifications

Design Units	METRIC
Ball Type	STEEL
Bearing Weight	3.053 Kg 6.730 lb

Dimensions

d - Bore	60.00 mm 2.3622 in
D - Outer Diameter	130.00 mm 5.1181 in

Bearing Width	53.98 mm 2.1252 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	90700 N 20400 lbf
C0 - Static Radial Rating	51800 N 11700 lbf

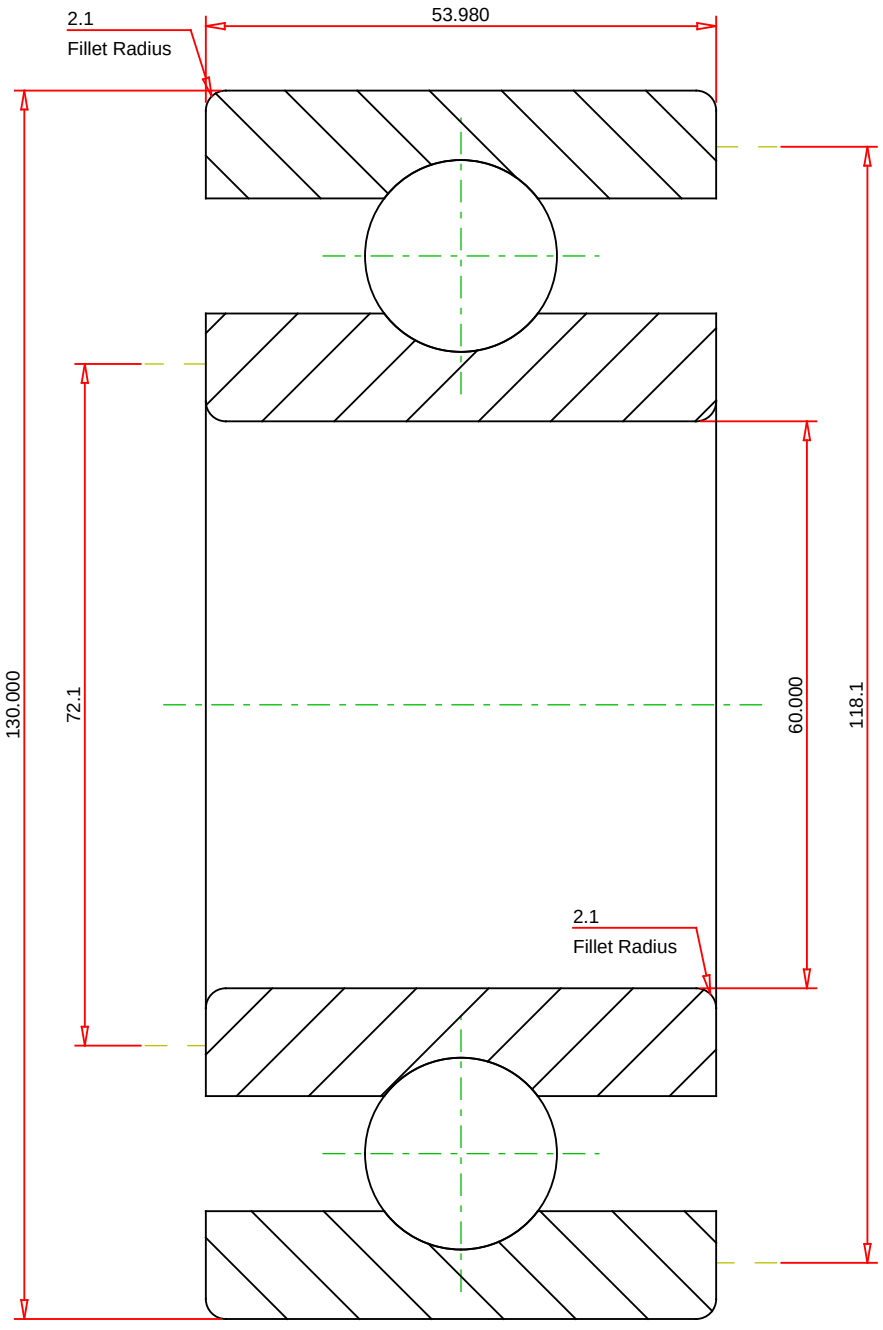
Factors

Limiting Speed (Grease)	3158 rpm
Limiting Speed (Oil)	3684 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	2.11 mm 0.083 in
r - Outer Ring "To Clear" Radius[3]	2.11 mm 0.083 in
da - Inner Ring Backing Diameter	72.14 mm 2.8400 in
Da - Outer Ring Backing Diameter	118.11 mm 4.6500 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	8	
Bearing Weight	3.053	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

W312PPG

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Dynamic Radial Rating	90700	N
		N
Static Radial Rating	51800	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