The Timken Company
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Part Number WIR320W, Fafnir® Maximum Capacity Ball Bearings (200W, 300W)

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	9.789 Kg 21.580 lb

Dimensions

d - Bore	100.00 mm 3.9370 in

D - Outer Diameter	215.00 mm 8.4646 in
Bearing Width	82.55 mm 3.2500 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	265400 N 59700 lbf
C0 - Static Radial Rating	225800 N 50800 lbf

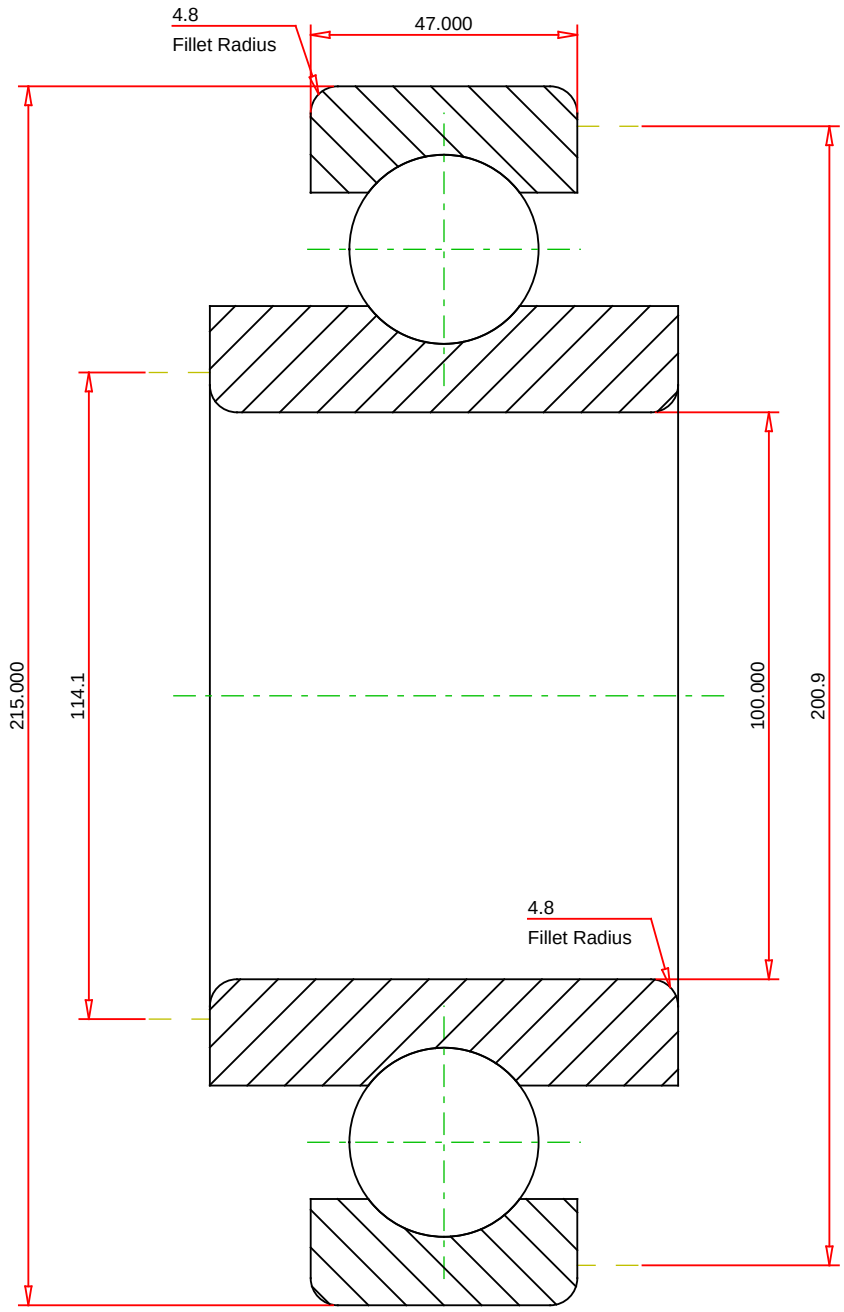
Factors

Limiting Speed (Grease)	1905 rpm
Limiting Speed (Oil)	2222 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	4.78 mm 0.188 in
r - Outer Ring "To Clear" Radius[3]	4.78 mm 0.188 in
da - Inner Ring Backing Diameter	114.05 mm 4.4900 in
Da - Outer Ring Backing Diameter	200.91 mm 7.9100 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	9.789	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

WIR320W

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Dynamic Radial Rating	265400	N
		N
Static Radial Rating	225800	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