


The Timken Company

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Part Number 221WD, 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


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Specifications

Design Units	Metric
d - Bore	105 mm
Ball Type	STEEL

Dimensions



D - Outer Diameter	190 mm 7.4803 in
Bearing Width	36 mm 1.4173 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	193300 N 43400 lbf
C0 - Static Radial Rating	156700 N 35200 lbf

Factors

Limiting Speed (Grease)	1695 rpm
Limiting Speed (Oil)	2034 rpm

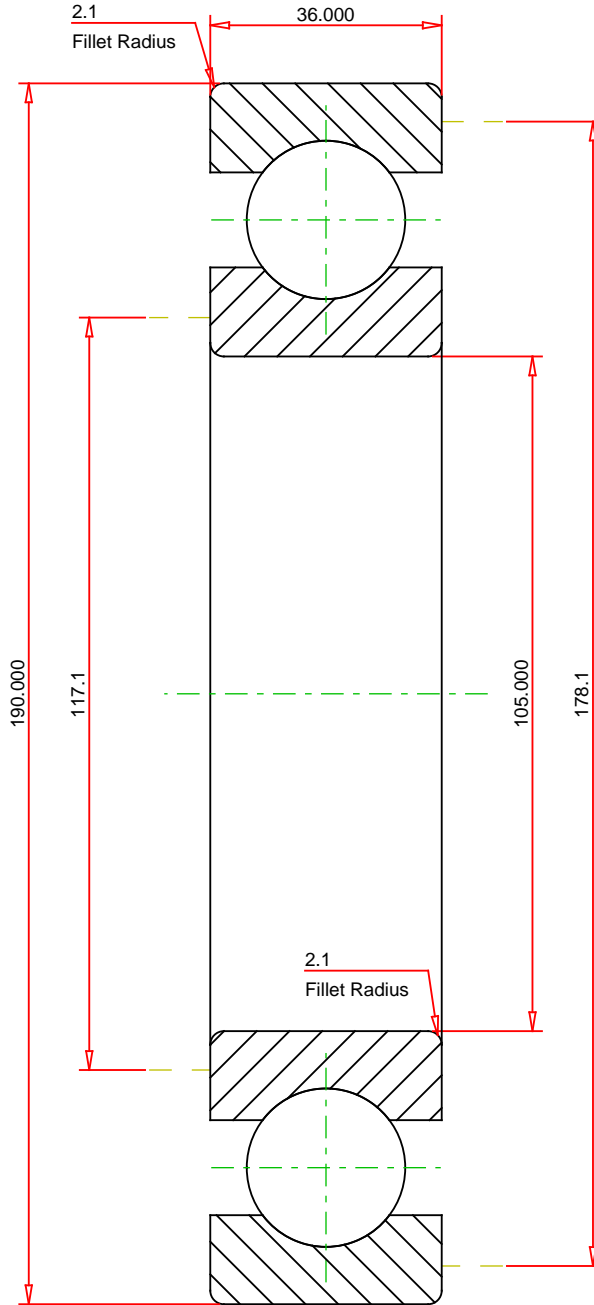
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	2.11 mm 0.083 in
r - Outer Ring "To Clear" Radius³	2.11 mm 0.083 in
da - Inner Ring Backing Diameter	117.1 mm 4.6102 in
Da - Outer Ring Backing Diameter	178.10 mm 7.0118 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 15
 Bearing Weight 4.277 kg

TIMKEN®

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 NORTH CANTON, OHIO USA

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Dynamic Radial Rating 193300 N
 Static Radial Rating 156700 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.

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