


**The Timken Company**

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## Part Number 317W, 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

<b>Design Units</b>	Metric
<b>d - Bore</b>	85 mm
<b>Ball Type</b>	STEEL

### Dimensions



<b>D - Outer Diameter</b>	180 mm 7.0866 in
<b>Bearing Width</b>	41 mm 1.6142 in

## Basic Load Ratings

<b>Ce - Dynamic Radial Rating<sup>1</sup></b>	205953 N 46300 lbf
<b>C0 - Static Radial Rating</b>	157467 N 35400 lbf

## Factors

<b>Limiting Speed (Grease)</b>	1890 rpm
<b>Limiting Speed (Oil)</b>	2260 rpm

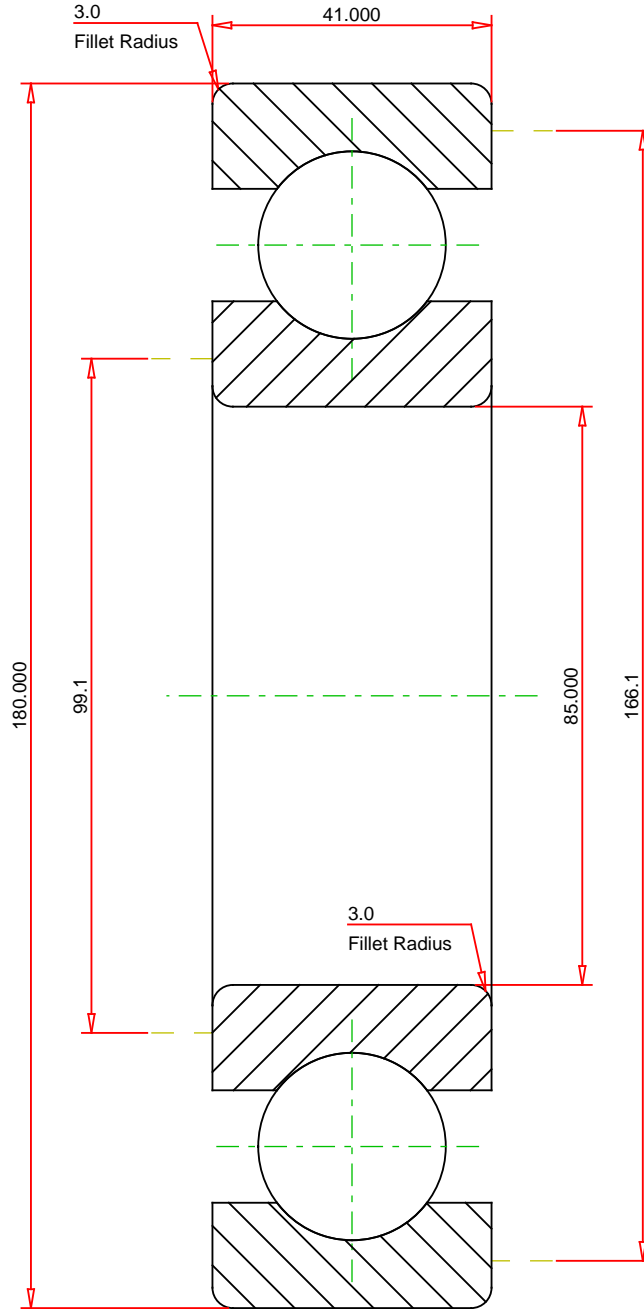
## Abutment and Fillet Dimensions

<b>R - Inner Ring "To Clear" Radius<sup>2</sup></b>	3 mm 0.118 in
<b>r - Outer Ring "To Clear" Radius<sup>3</sup></b>	3 mm 0.118 in
<b>da - Inner Ring Backing Diameter</b>	99.10 mm 3.900 in
<b>Da - Outer Ring Backing Diameter</b>	166.10 mm 6.540 in

<sup>1</sup> Based on  $10^6$  revolutions of calculated fatigue life.

<sup>2</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>3</sup> Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row 12  
 Bearing Weight 4.872 kg

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 NORTH CANTON, OHIO USA

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 Fafnir® Maximum Capacity Ball Bearings (200W, 300W)

Dynamic Radial Rating 205953 N  
 Static Radial Rating 157467 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**