



The Timken Company
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Part Number 222W, 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	110 mm
Ball Type	STEEL
Manufacturing Part Number	222WC1

Dimensions	
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**D - Outer Diameter**

200 mm

7.874 in

Bearing Width

38 mm

1.4961 in

Basic Load Ratings**Ce - Dynamic Radial Rating¹**

218600 N

49100 lbf

C0 - Static Radial Rating

187000 N

42000 lbf

Factors**Limiting Speed (Grease)**

1613 rpm

Limiting Speed (Oil)

1935 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

121.92 mm

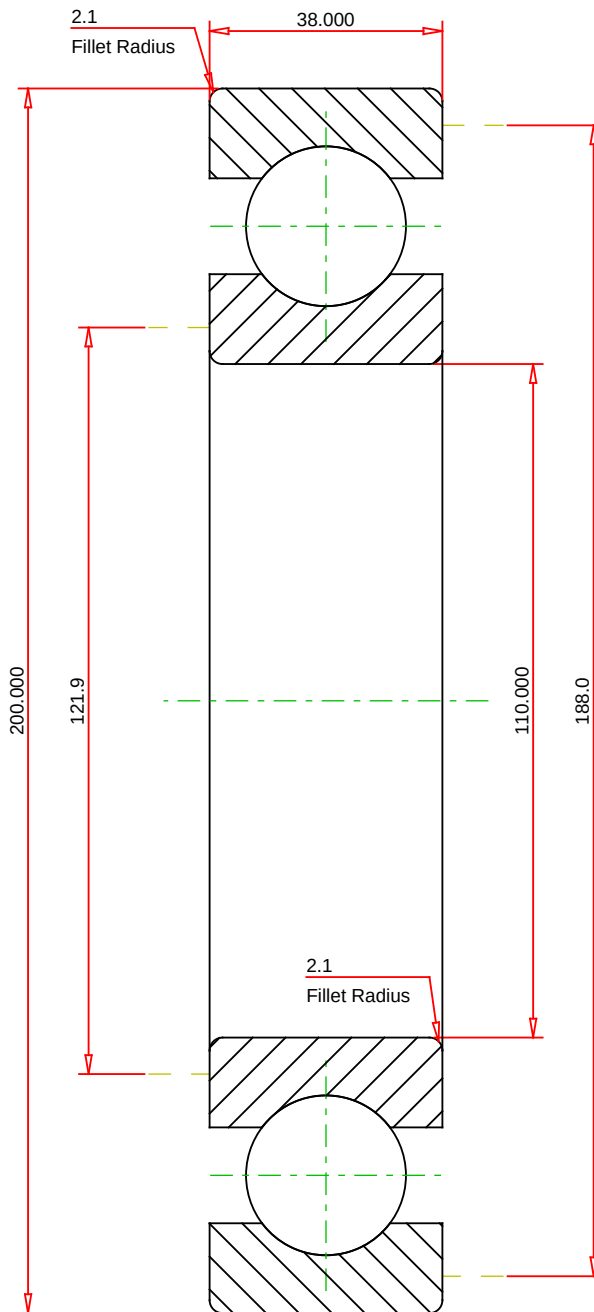
4.8000 in

Da - Outer Ring Backing Diameter

187.96 mm

7.4000 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 Bearing Weight	16 4.776 kg	TIMKEN®		222W Fafnir® Maximum Capacity Ball Bearings (200W, 300W)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA		Dynamic Radial Rating	218600 N
				Static Radial Rating	187000 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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