



The Timken Company
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Part Number 322W, 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

Dimensions	



D - Outer Diameter 240 mm
9.4488 in

Bearing Width 50 mm
1.9685 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹ 298031 N
67000 lbf

C0 - Static Radial Rating 267338 N
60100 lbf

Factors

Limiting Speed (Grease) 1430 rpm

Limiting Speed (Oil) 1710 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius² 3 mm
0.118 in

r - Outer Ring "To Clear" Radius³ 3 mm
0.118 in

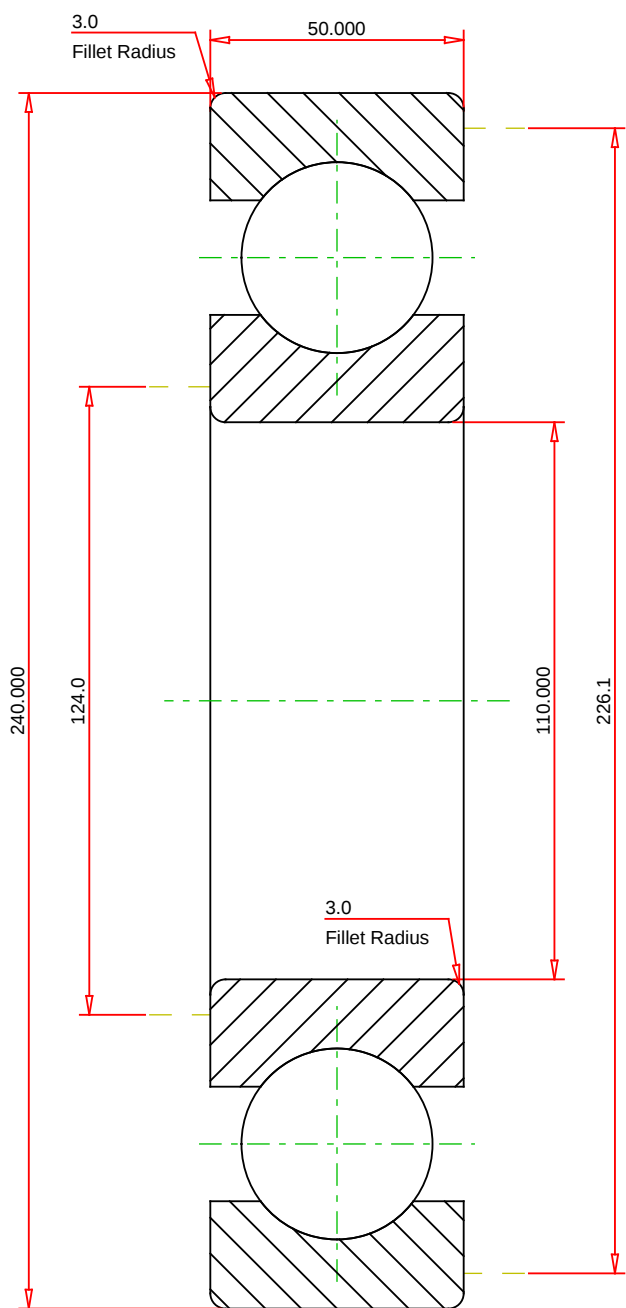
da - Inner Ring Backing Diameter 124.0 mm
4.880 in

Da - Outer Ring Backing Diameter 226.10 mm
8.9000 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	12 10.810 kg	TIMKEN®	322W Fafnir® Maximum Capacity Ball Bearings (200W, 300W)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	Dynamic Radial Rating298031 N Static Radial Rating267338 N	