



The Timken Company
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Part Number 9124K, Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)

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	120 mm
Ball Type	STEEL

Dimensions	
D - Outer Diameter	180 mm 7.087 in
 Bearing Width	28 mm 1.1024 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹86295 N
19400 lbf**C0 - Static Radial Rating**72951 N
16400 lbf

Factors

Limiting Speed (Grease)

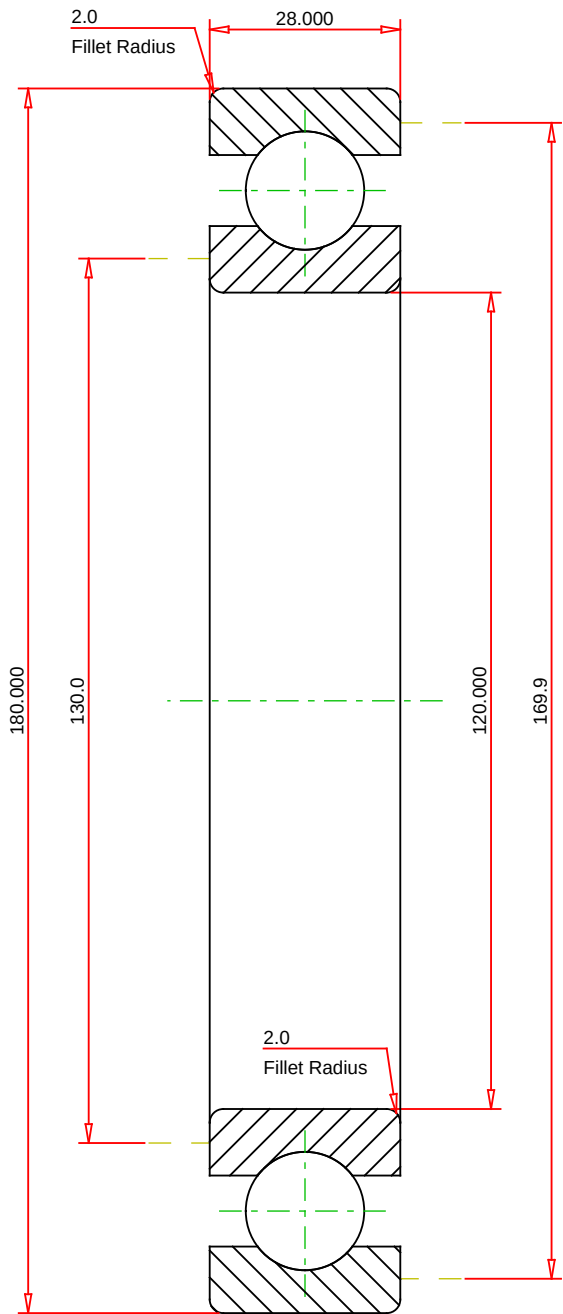
2000 rpm

Limiting Speed (Oil)

2330 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²2 mm
0.079 in**r - Outer Ring "To Clear" Radius³**2 mm
0.079 in**da - Inner Ring Backing Diameter**130.00 mm
5.1200 in**Da - Outer Ring Backing
Diameter**169.90 mm
6.6900 in¹ 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 2.200 kg

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Dynamic Radial Rating 86295 N
Static Radial Rating 72951 N

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