The Timken Company
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Part Number 9124KD, 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

more



Specifications | Dimensions | Basic Load Ratings | Factors | Abutment and Fillet Dimensions

Specifications

Design Units	METRIC
Ball Type	STEEL
Bearing Weight	2.223 Kg 4.900 lb

Dimensions

d - Bore	120.00 mm 4.7244 in
D - Outer Diameter	180.00 mm 7.0866 in

Bearing Width	28.00 mm 1.1024 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	86300 N 19400 lbf
C0 - Static Radial Rating	73100 N 16400 lbf

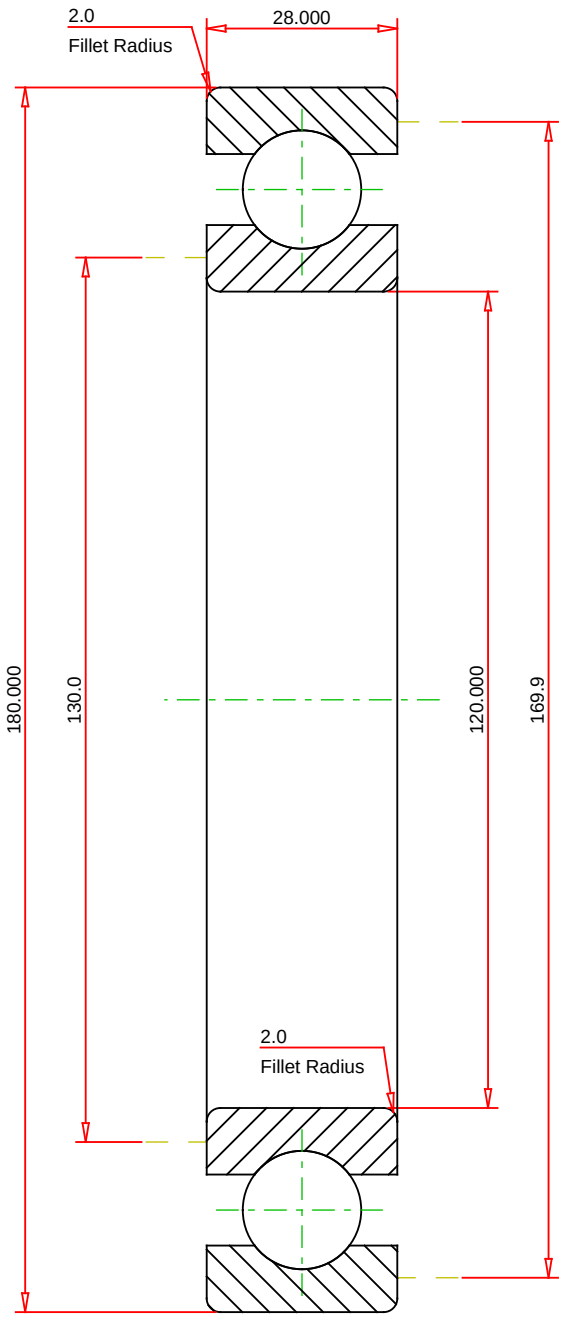
Factors

Limiting Speed (Grease)	1998 rpm
Limiting Speed (Oil)	2331 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	2 mm 0.079 in
r - Outer Ring "To Clear" Radius[3]	2 mm 0.079 in
da - Inner Ring Backing Diameter	130.00 mm 5.1181 in
Da - Outer Ring Backing Diameter	169.90 mm 6.6890 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	2.223	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

9124KD

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Dynamic Radial Rating	86300	N
		N
Static Radial Rating	73100	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