The Timken Company
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Part Number 9117K3, 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	0.966 Kg 2.13 lb

Dimensions

d - Bore	85.00 mm 3.3465 in
D - Outer Diameter	130.00 mm 5.1181 in

Bearing Width	22.00 mm 0.8661 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	55100 N 12400 lbf
C0 - Static Radial Rating	42700 N 9600 lbf

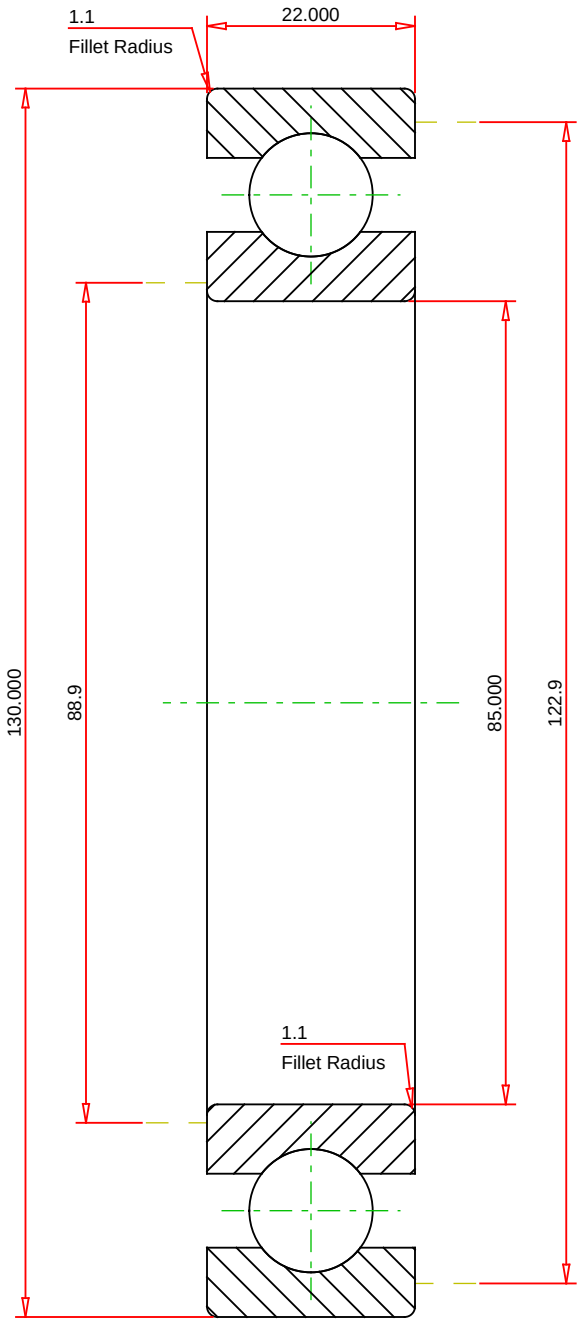
Factors

Limiting Speed (Grease)	2863 rpm
Limiting Speed (Oil)	3340 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.10 mm 0.043 in
r - Outer Ring "To Clear" Radius[3]	1.10 mm 0.043 in
da - Inner Ring Backing Diameter	88.90 mm 3.5000 in
Da - Outer Ring Backing Diameter	122.90 mm 4.8386 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	0.966	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

9117K3

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Dynamic Radial Rating	55100	N
		N
Static Radial Rating	42700	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