The Timken Company
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Timken Part Number MM9122K, Fafnir® Spindle Deep Grove 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
Cage Type	CR - Phenolic Inner Land Riding Cage
Bearing Weight	1.882 Kg 4.15 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	110.000 mm 4.3307 in
D - Outer Diameter	170.000 mm 6.6929 in
Bearing Width	28.000 mm 1.1024 in
do - Ball Diameter	17.462500 mm 0.687500 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	83400 N 18700 lbf
C0 - Static Radial Rating	66700 N 15000 lbf

Factors

Limiting Speed (Grease)	6840 rpm
Limiting Speed (Oil)	13680 rpm

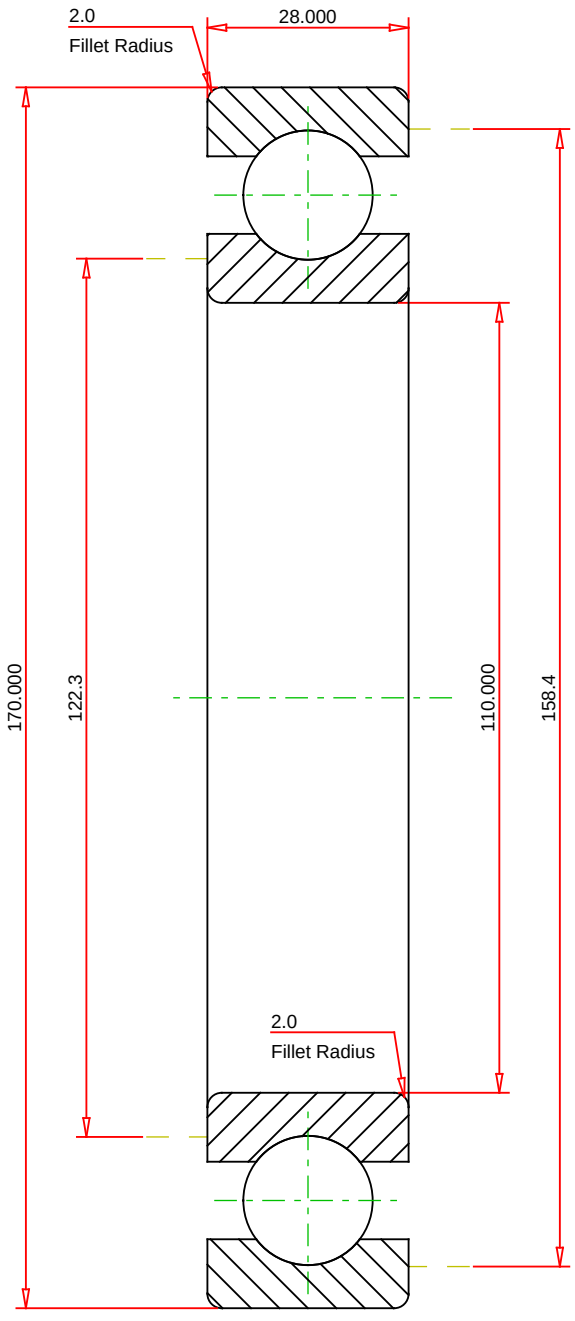
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	2.000 mm 0.079 in
r - Outer Ring "To Clear" Radius[3]	2.000 mm 0.079 in
da - Inner Ring Backing Diameter	122.300 mm 4.820 in
Da - Outer Ring Backing Diameter	158.400 mm 6.240 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	14	
Bearing Weight	1.882	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM9122K

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Dynamic Radial Rating	83400	N
		N
Static Radial Rating	66700	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