The Timken Company
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Timken Part Number MM9108K, 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	0.180 Kg 0.4 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	40.000 mm 1.5748 in
D - Outer Diameter	68.000 mm 2.6772 in
Bearing Width	15.000 mm 0.5906 in
do - Ball Diameter	7.937500 mm 0.312500 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	18600 N 4180 lbf
C0 - Static Radial Rating	11600 N 2600 lbf

Factors

Limiting Speed (Grease)	18200 rpm
Limiting Speed (Oil)	36400 rpm

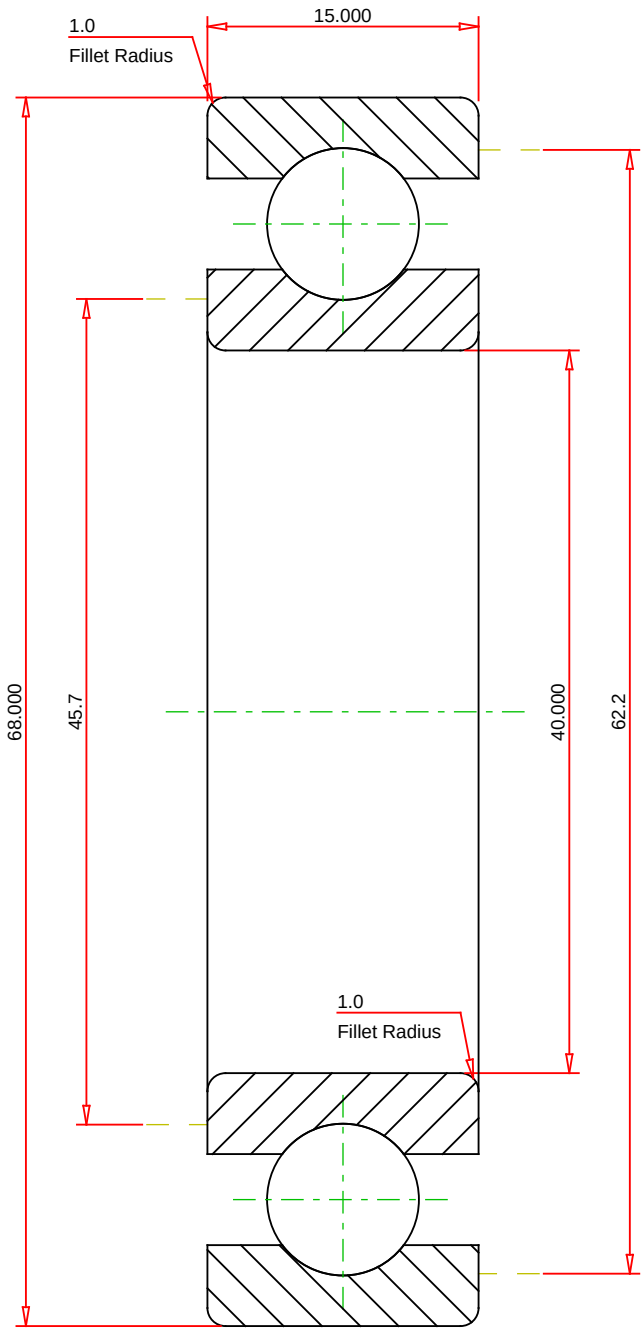
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.000 mm 0.039 in
r - Outer Ring "To Clear" Radius[3]	1.000 mm 0.039 in
da - Inner Ring Backing Diameter	45.700 mm 1.800 in
Da - Outer Ring Backing Diameter	62.200 mm 2.450 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	12	
Bearing Weight	0.180	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM9108K

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Dynamic Radial Rating	18600	N
		N
Static Radial Rating	11600	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