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Timken Part Number MM212K, 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	0.727 Kg 1.60 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	60.000 mm 2.3622 in
D - Outer Diameter	110.000 mm 4.3307 in
Bearing Width	22.000 mm 0.8661 in
do - Ball Diameter	15.87500 mm 0.62500 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	58200 N 13100 lbf
C0 - Static Radial Rating	36300 N 8150 lbf

Factors

Limiting Speed (Grease)	12100 rpm
Limiting Speed (Oil)	24200 rpm

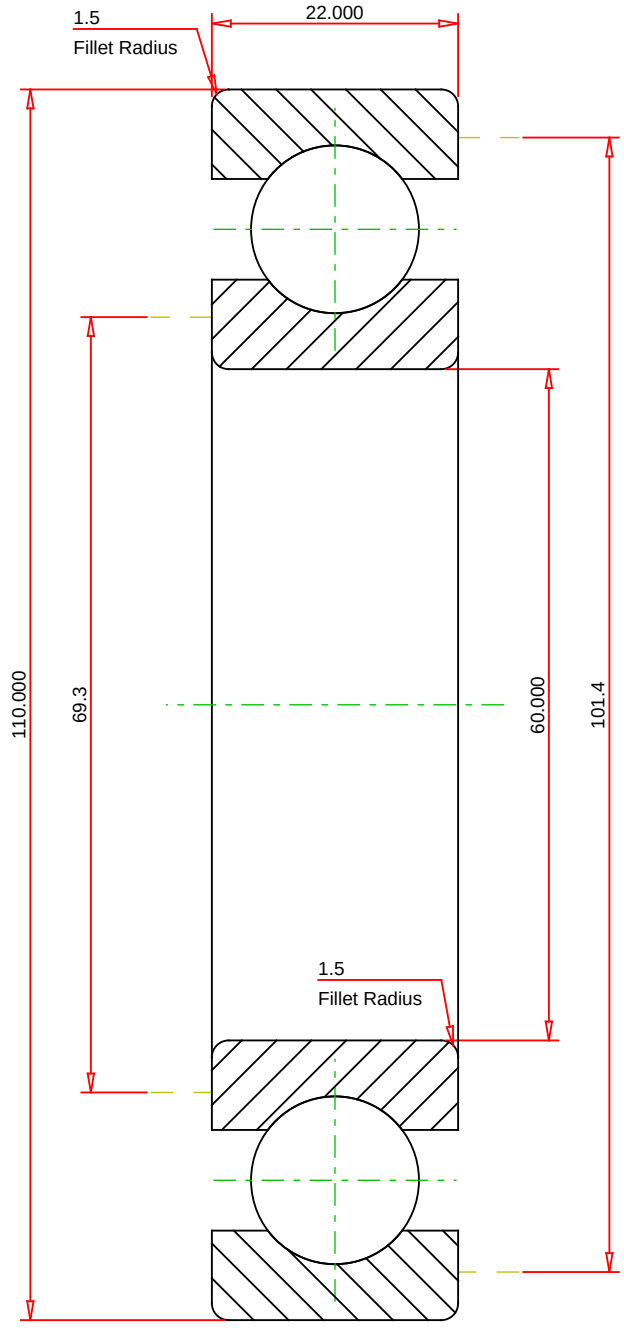
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.500 mm 0.059 in
r - Outer Ring "To Clear" Radius[3]	1.500 mm 0.059 in
da - Inner Ring Backing Diameter	69.300 mm 2.730 in
Da - Outer Ring Backing Diameter	101.400 mm 3.990 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	10	
Bearing Weight	0.727	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM212K

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Dynamic Radial Rating	58200	N
		N
Static Radial Rating	36300	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