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Timken Part Number MM211K, 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	0.564 Kg 1.24 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	55.000 mm 2.1654 in
D - Outer Diameter	100.000 mm 3.9370 in
Bearing Width	21.000 mm 0.8268 in
do - Ball Diameter	14.287500 mm 0.562500 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	48100 N 10800 lbf
C0 - Static Radial Rating	29100 N 6550 lbf

Factors

Limiting Speed (Grease)	13300 rpm
Limiting Speed (Oil)	26600 rpm

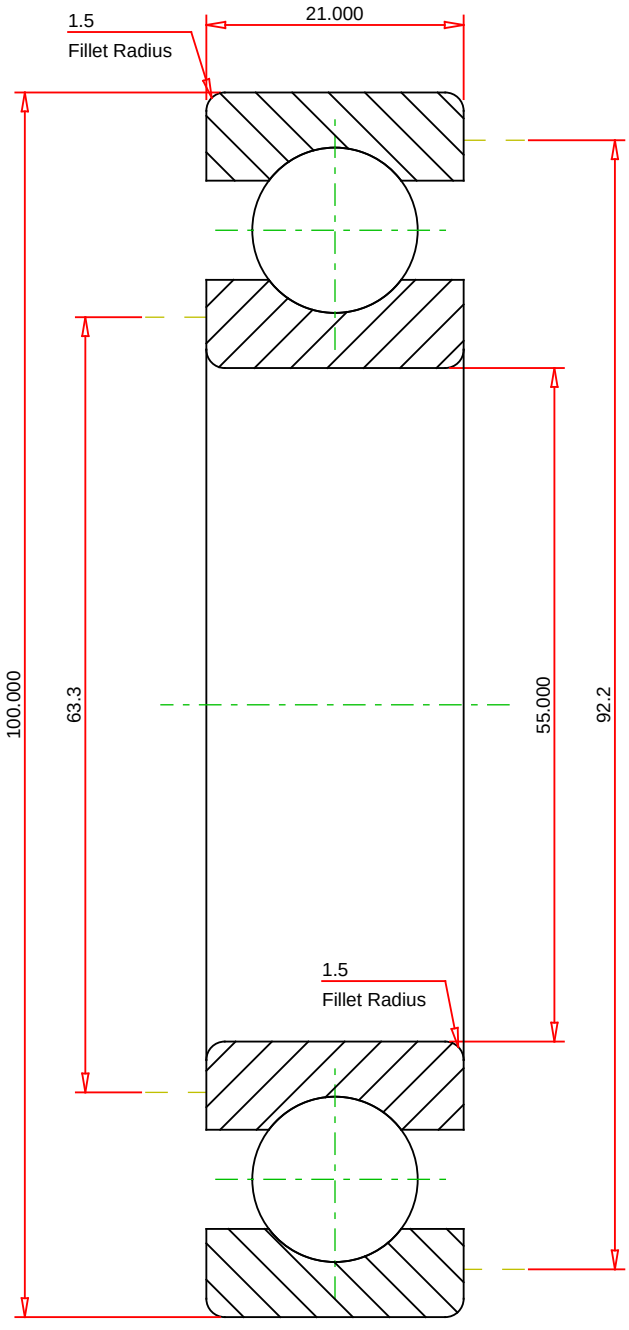
Abutment and Fillet Dimensions

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	63.300 mm 2.490 in
Da - Outer Ring Backing Diameter	92.200 mm 3.630 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	0.564	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM211K

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Dynamic Radial Rating	48100	N
		N
Static Radial Rating	29100	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