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Timken Part Number MM214K, 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	0.994 Kg 2.19 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	70.000 mm 2.7559 in
D - Outer Diameter	125.000 mm 4.9213 in
Bearing Width	24.000 mm 0.9449 in
do - Ball Diameter	17.462500 mm 0.687500 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	69000 N 15500 lbf
C0 - Static Radial Rating	43600 N 9800 lbf

Factors

Limiting Speed (Grease)	10500 rpm
Limiting Speed (Oil)	21000 rpm

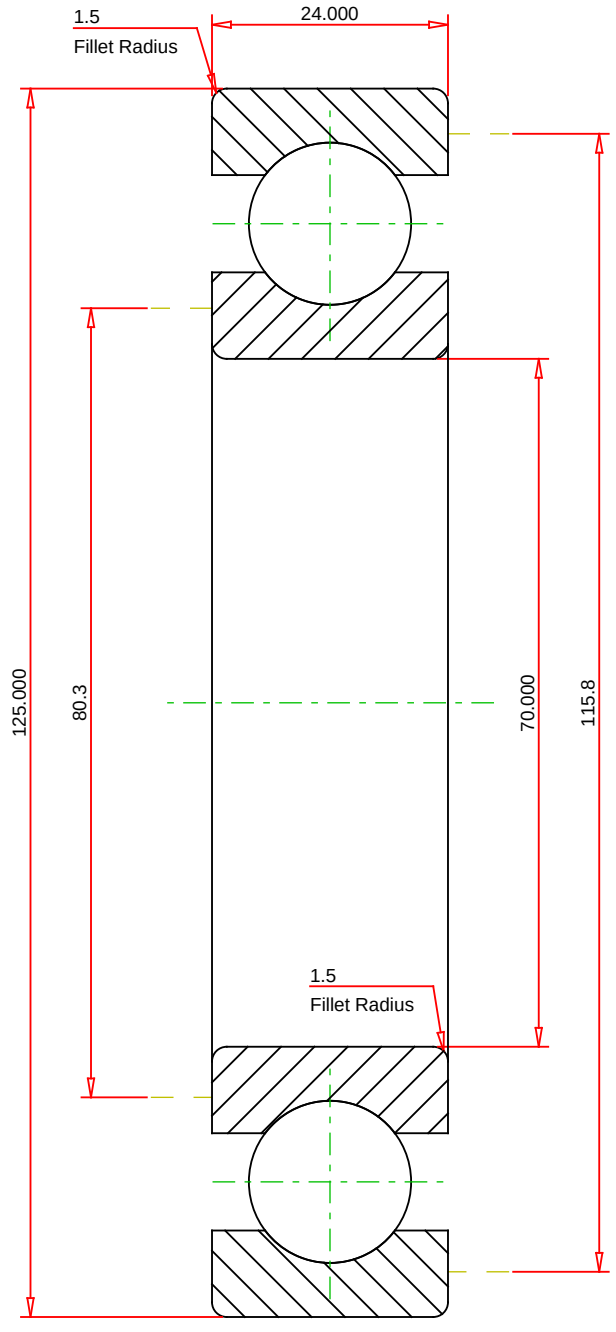
Abutment and Fillet Dimensions

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	80.300 mm 3.160 in
Da - Outer Ring Backing Diameter	115.800 mm 4.560 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	0.994	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM214K

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Dynamic Radial Rating	69000	N
		N
Static Radial Rating	43600	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