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Timken Part Number MM313K, 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	2.046 Kg 4.51 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	65.000 mm 2.5591 in
D - Outer Diameter	140.000 mm 5.5118 in
Bearing Width	33.000 mm 1.2992 in
do - Ball Diameter	23.81250 mm 0.93750 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	102700 N 23100 lbf
C0 - Static Radial Rating	59700 N 13400 lbf

Factors

Limiting Speed (Grease)	10700 rpm
Limiting Speed (Oil)	21400 rpm

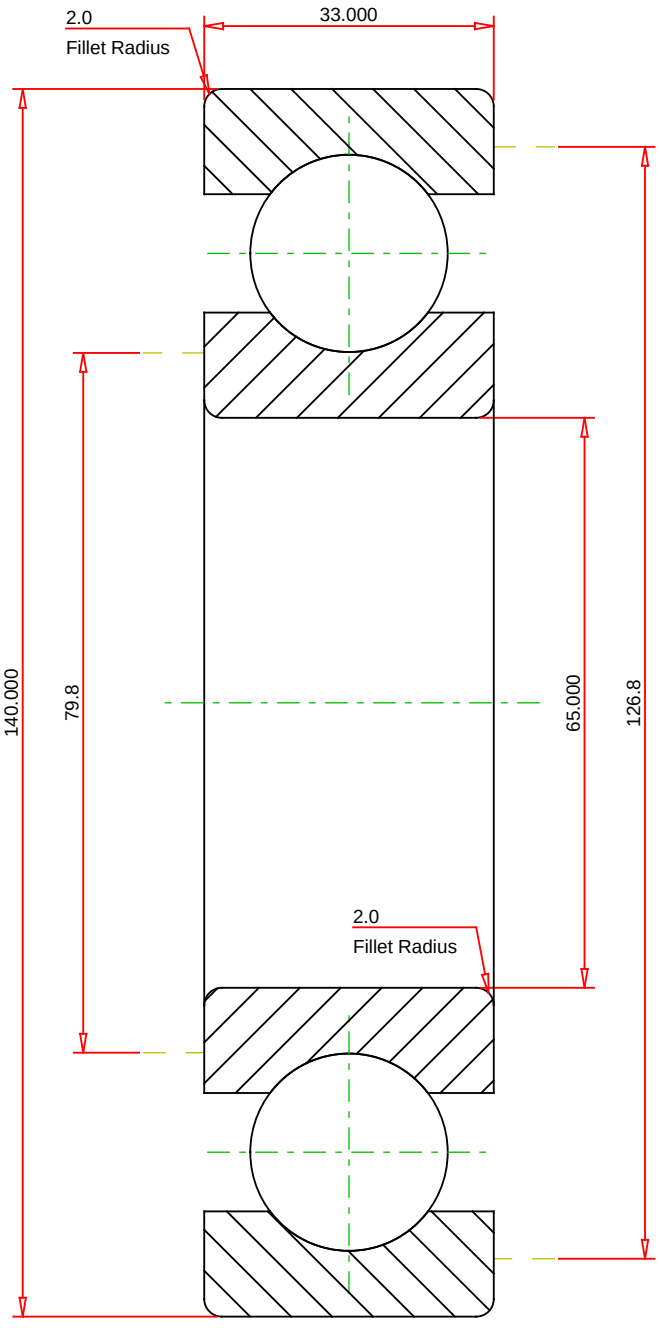
Abutment and Fillet Dimensions

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	79.800 mm 3.140 in
Da - Outer Ring Backing Diameter	126.800 mm 4.990 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	8	
Bearing Weight	2.046	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM313K

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Dynamic Radial Rating	102700	N
		N
Static Radial Rating	59700	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