The Timken Company
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Part Number WIR313K, Fafnir® Deep Groove 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
Bearing Weight	2.781 Kg 6.130 lb

Dimensions

d - Bore	65.00 mm 2.5591 in
D - Outer Diameter	140.00 mm 5.5118 in

Bearing Width	58.74 mm 2.3125 in

Basic Load Ratings

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

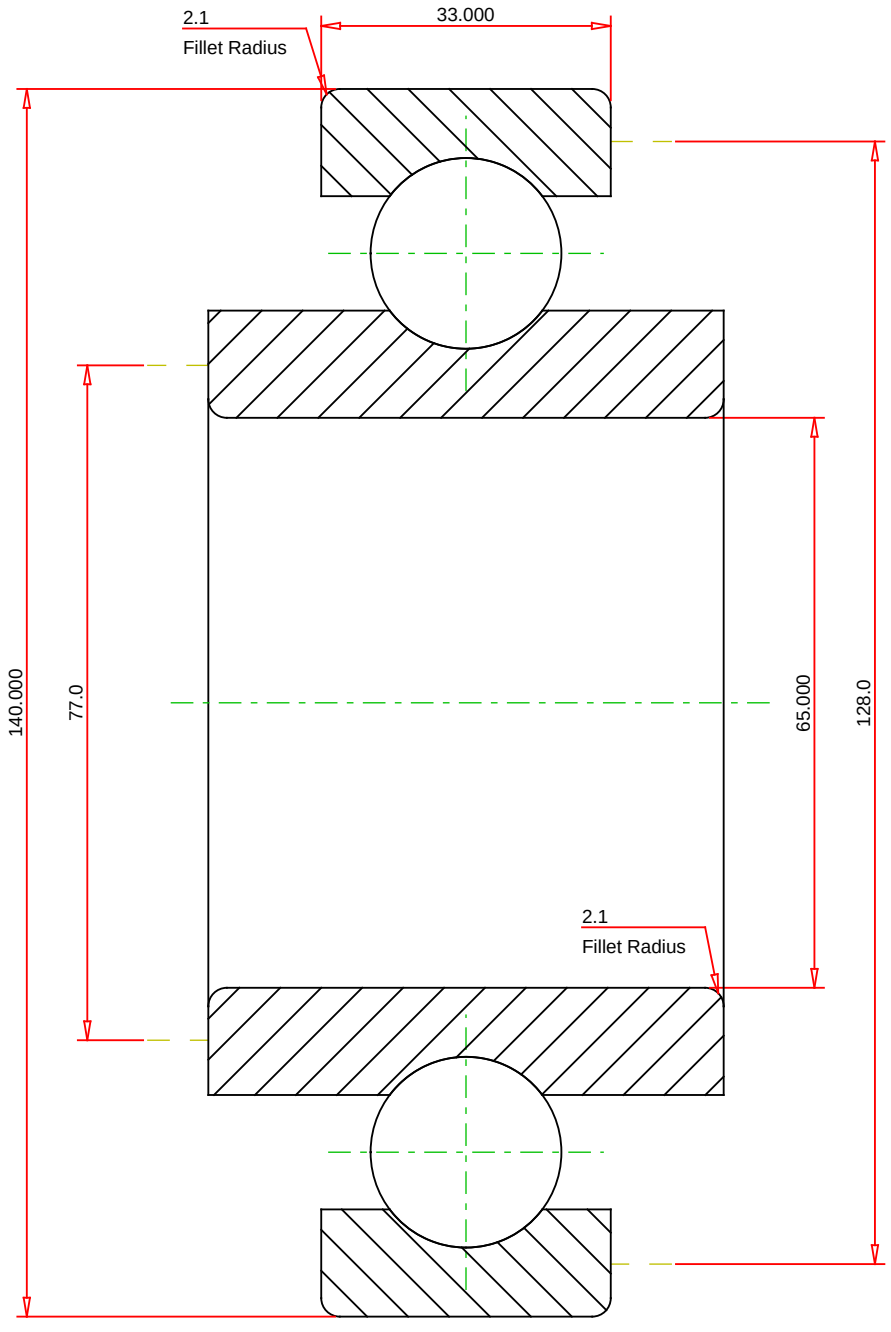
Factors

Limiting Speed (Grease)	2927 rpm
Limiting Speed (Oil)	3415 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	2.11 mm 0.083 in
r - Outer Ring "To Clear" Radius[3]	2.11 mm 0.083 in
da - Inner Ring Backing Diameter	76.96 mm 3.0300 in
Da - Outer Ring Backing Diameter	128.02 mm 5.0400 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	2.781	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

WIR313K

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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