


The Timken Company

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Part Number 315KDD, 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


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Specifications

Design Units	Metric
d - Bore	75 mm
Ball Type	STEEL
Manufacturing Part Number	315KDDC3

Dimensions



D - Outer Diameter	160 mm 6.299 in
Bearing Width	37 mm 1.4567 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	125800 N 28300 lbf
C0 - Static Radial Rating	77000 N 17300 lbf

Factors

Limiting Speed (Grease)	2553 rpm
Limiting Speed (Oil)	2979 rpm

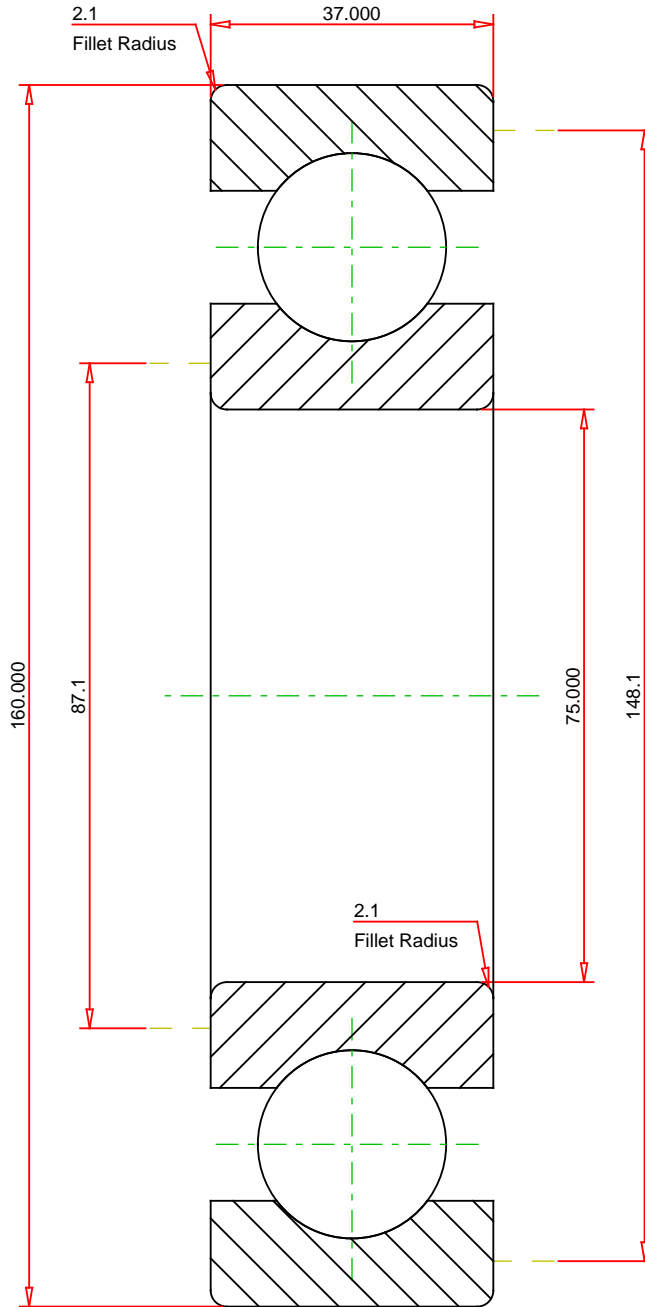
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	2.11 mm 0.083 in
r - Outer Ring "To Clear" Radius³	2.11 mm 0.083 in
da - Inner Ring Backing Diameter	87.10 mm 3.4291 in
Da - Outer Ring Backing Diameter	148.10 mm 5.8307 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 3.175 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

315KDD
 Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)

Dynamic Radial Rating 125800 N
 Static Radial Rating 77000 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.

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