


The Timken Company

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Part Number 9107KDD, 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	35 mm
Ball Type	STEEL
Manufacturing Part Number	9107KDD Z5 FS50000

Dimensions



D - Outer Diameter	62 mm 2.441 in
Bearing Width	14 mm 0.5512 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	17700 N 3980 lbf
C0 - Static Radial Rating	10300 N 2310 lbf

Factors

Limiting Speed (Grease)	6186 rpm
Limiting Speed (Oil)	7217 rpm

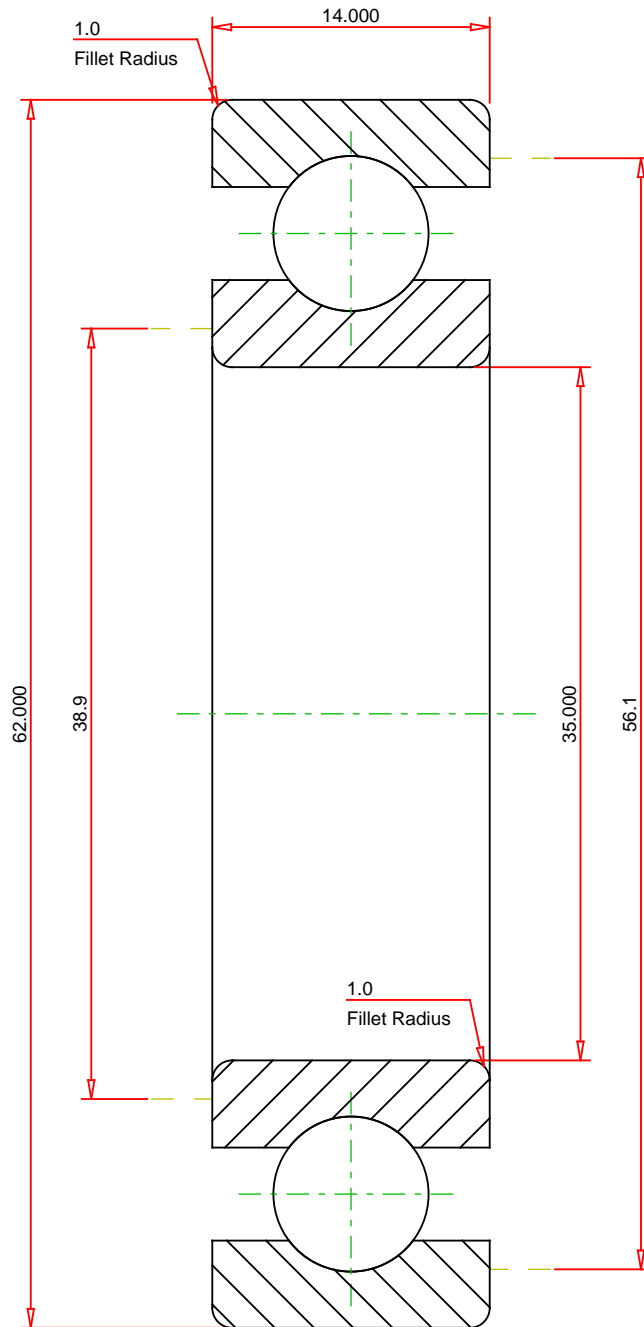
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1 mm 0.039 in
r - Outer Ring "To Clear" Radius³	1 mm 0.039 in
da - Inner Ring Backing Diameter	38.90 mm 1.5315 in
Da - Outer Ring Backing Diameter	56.10 mm 2.2087 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	11
Bearing Weight	0.145 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Dynamic Radial Rating	17700 N
Static Radial Rating	10300 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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