


The Timken Company

4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 9107PP, 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
d - Bore	35 mm
Ball Type	STEEL
Manufacturing Part Number	9107PP 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

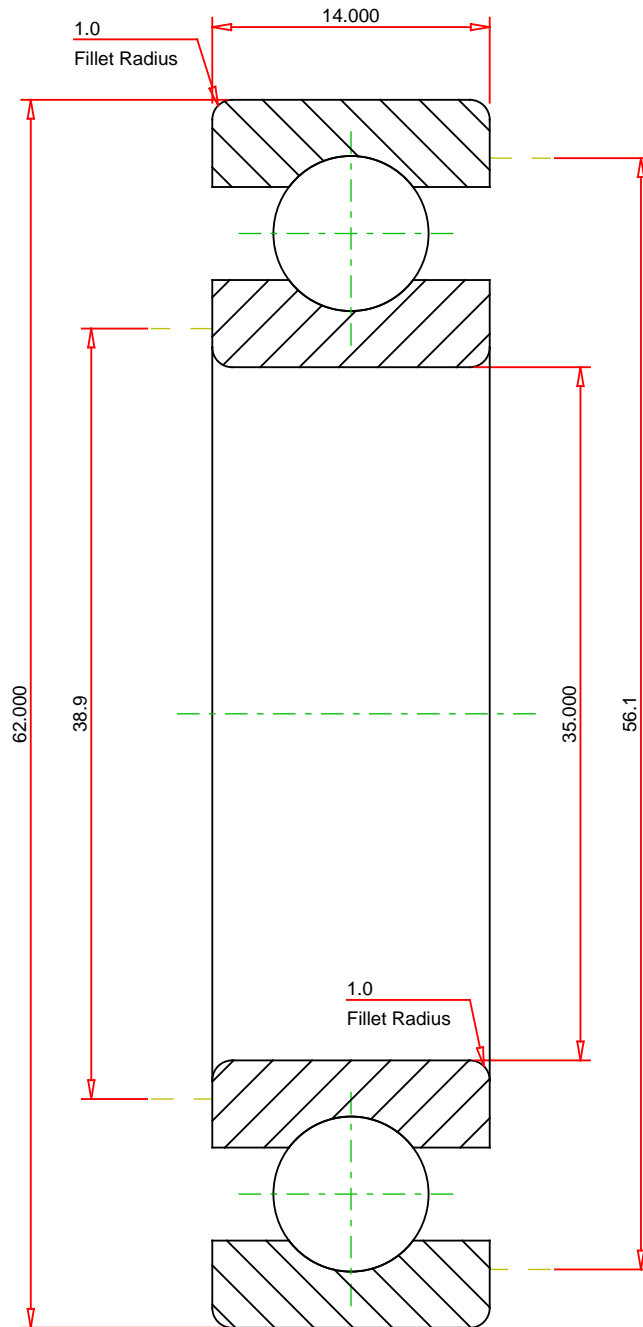
Abutment and Fillet Dimensions

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	56.11 mm 2.2090 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®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

9107PP
Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)

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.

FOR DISCUSSION ONLY