


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 207K, 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	207K Z3 FS50000

Dimensions



D - Outer Diameter	72 mm 2.835 in
Bearing Width	17 mm 0.6693 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	28500 N 6400 lbf
C0 - Static Radial Rating	15300 N 3440 lbf

Factors

Limiting Speed (Grease)	5607 rpm
Limiting Speed (Oil)	6542 rpm

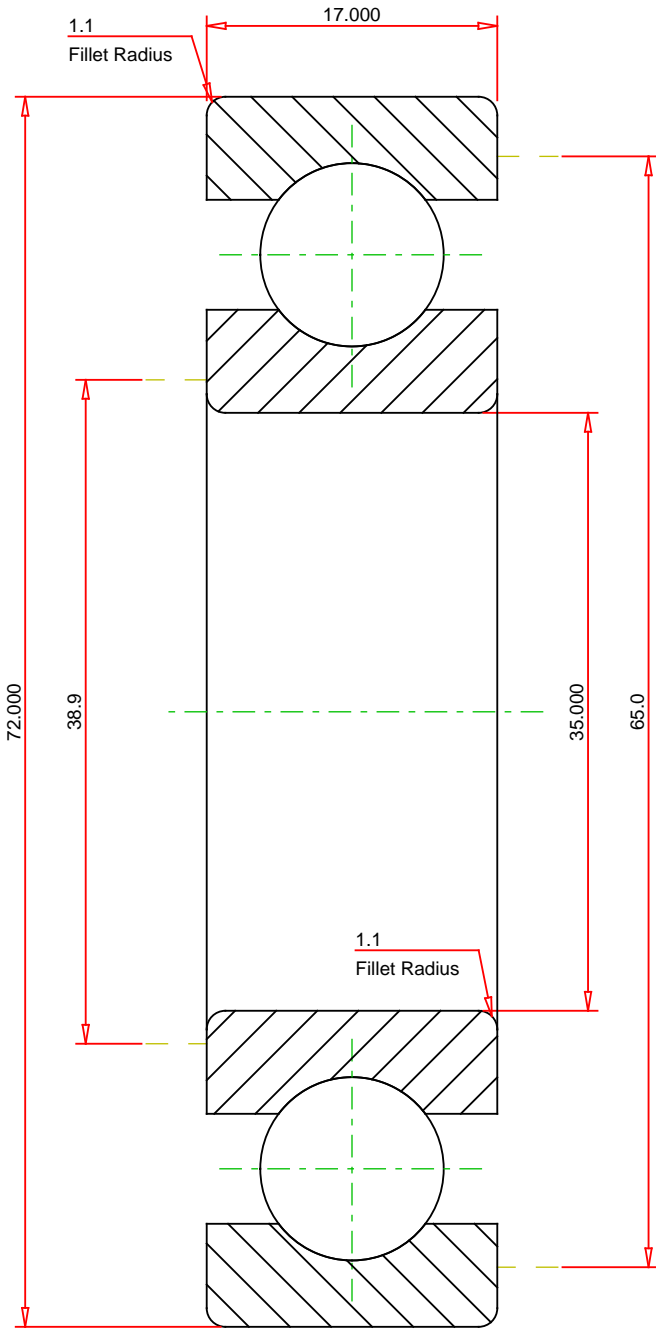
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1.09 mm 0.043 in
r - Outer Ring "To Clear" Radius³	1.09 mm 0.043 in
da - Inner Ring Backing Diameter	38.86 mm 1.5300 in
Da - Outer Ring Backing Diameter	65.02 mm 2.5600 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	9
Bearing Weight	0.290 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

207K	
Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)	
Dynamic Radial Rating	28500 N
Static Radial Rating	15300 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