


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 9104K, 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	20 mm
Ball Type	STEEL
Manufacturing Part Number	9104K Z5 FS50000

Dimensions



D - Outer Diameter	42 mm 1.654 in
Bearing Width	12 mm 0.4724 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	10409 N 2340 lbf
C0 - Static Radial Rating	5026 N 1130 lbf

Factors

Limiting Speed (Grease)	9680 rpm
Limiting Speed (Oil)	11290 rpm

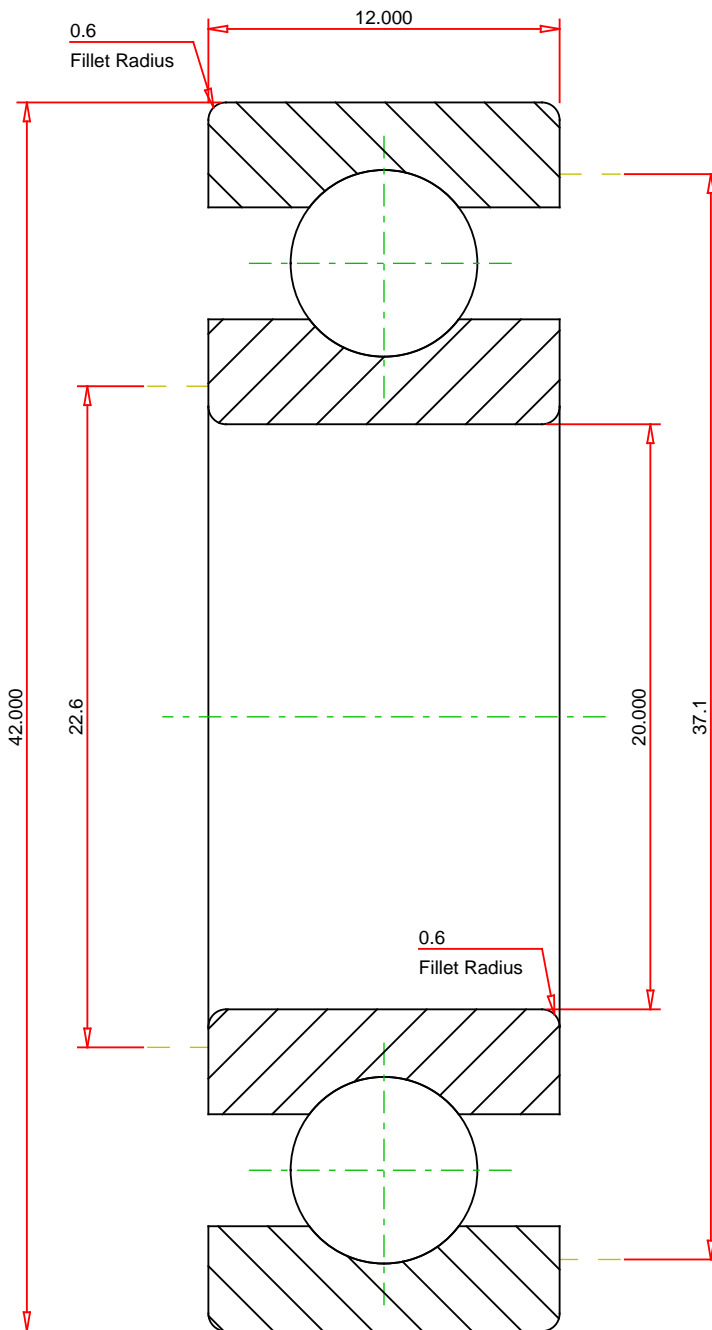
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	0.6 mm 0.024 in
r - Outer Ring "To Clear" Radius³	0.6 mm 0.024 in
da - Inner Ring Backing Diameter	22.60 mm 0.890 in
Da - Outer Ring Backing Diameter	37.10 mm 1.4600 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	0.073 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Static Radial Rating	5026 N

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