


The Timken Company

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Part Number 205PP, 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	25 mm
Ball Type	STEEL
Manufacturing Part Number	P205PP Z3 FS50000

Dimensions



D - Outer Diameter	52 mm 2.047 in
Bearing Width	15 mm 0.5906 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	14900 N 3340 lbf
C0 - Static Radial Rating	6880 N 1550 lbf

Factors

Limiting Speed (Grease)	7776 rpm
Limiting Speed (Oil)	9071 rpm

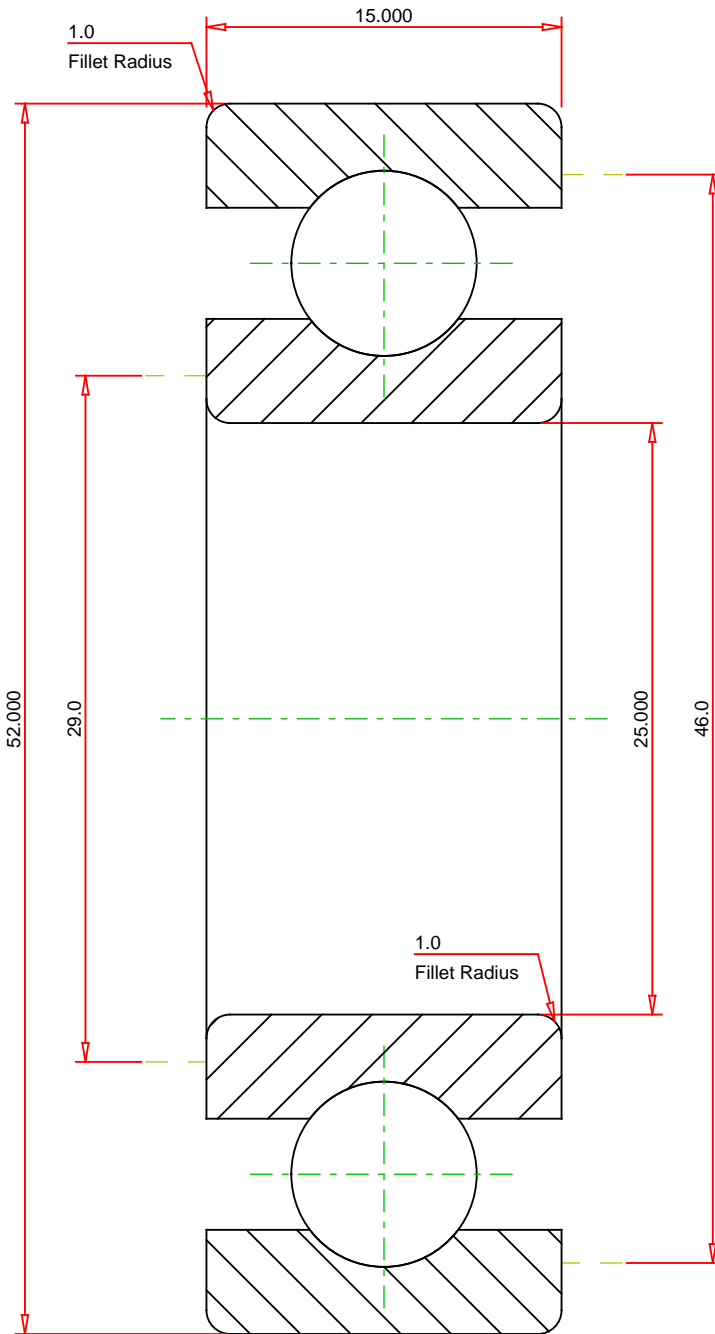
Abutment and Fillet Dimensions

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	29.00 mm 1.1417 in
Da - Outer Ring Backing Diameter	46.00 mm 1.8110 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	0.127 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Static Radial Rating	6880 N

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