



The Timken Company
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Part Number 203PPG21 FS50387K, 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	17 mm
Ball Type	STEEL
Manufacturing Part Number	P203PPG Z3 FS50000

Dimensions	
 - Outer Diameter	40 mm 1.575 in

Bearing Width	14 mm
	0.5512 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	10600 N
	2380 lbf

C0 - Static Radial Rating	4760 N
	1070 lbf

Factors

Limiting Speed (Grease)	10526 rpm
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Limiting Speed (Oil)	12281 rpm
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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

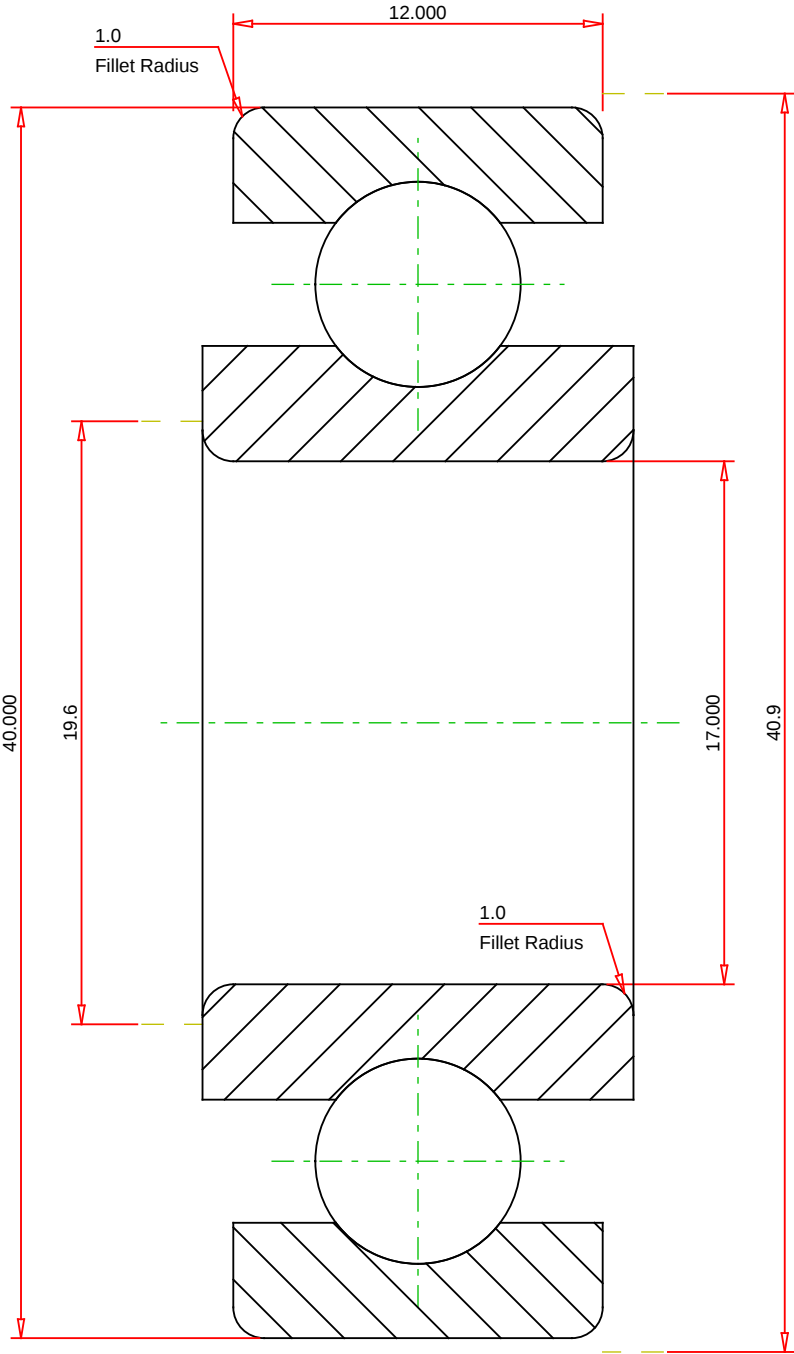
da - Inner Ring Backing Diameter	19.60 mm
	0.7717 in

Da - Outer Ring Backing Diameter	40.90 mm
	1.6102 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 8
Bearing Weight 0.104 kg

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NORTH CANTON, OHIO USA

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Dynamic Radial Rating 10600 N
Static Radial Rating 4760 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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