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Part Number 203VV, 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	203VV Z3 FS50000

Dimensions	



D - Outer Diameter	40 mm 1.575 in
Bearing Width	12 mm 0.4724 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	10600 N 2380 lbf
C0 - Static Radial Rating	4760 N 1070 lbf

Factors

Limiting Speed (Grease)	10237 rpm
Limiting Speed (Oil)	11943 rpm

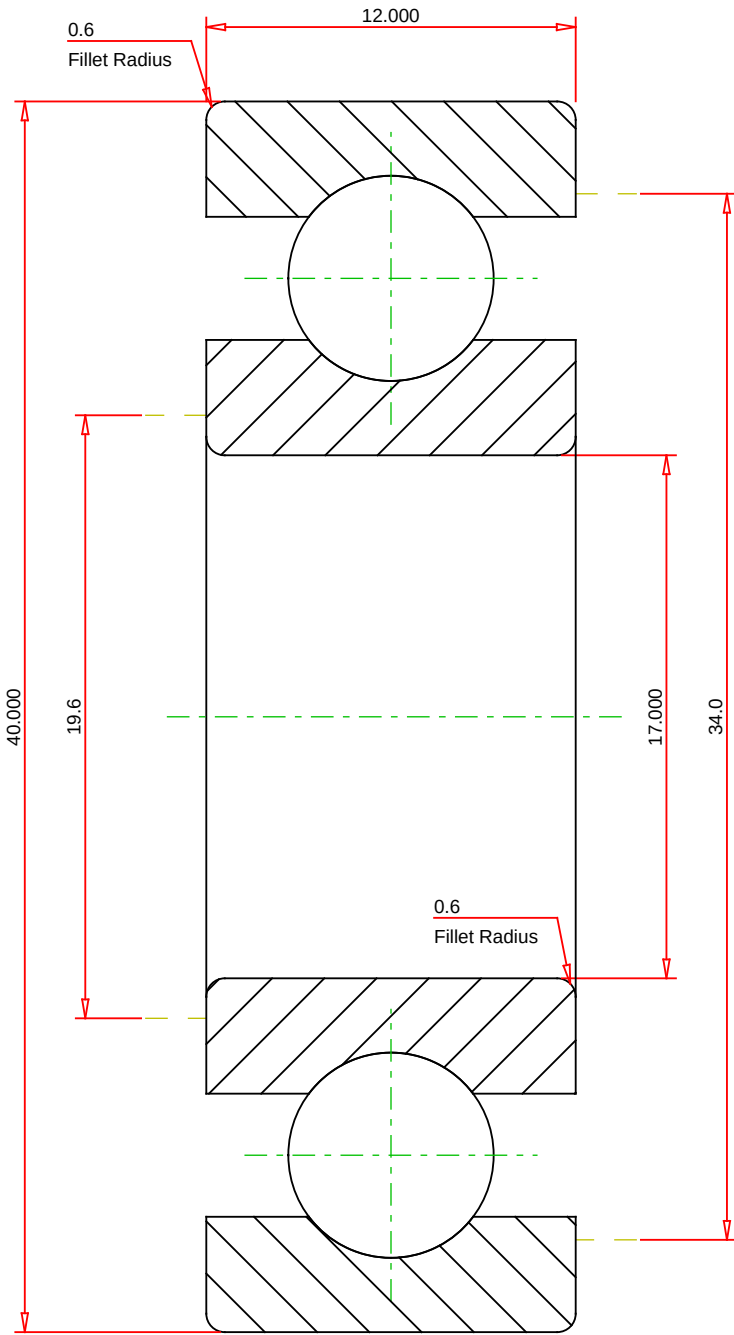
Abutment and Fillet Dimensions

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	19.60 mm 0.7717 in
Da - Outer Ring Backing Diameter	34.00 mm 1.3386 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 Bearing Weight	8 0.064 kg	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	203VV Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)	
			Dynamic Radial Rating Static Radial Rating	10600 N 4760 N
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