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Part Number 218K, 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	90 mm
Ball Type	STEEL
Manufacturing Part Number	218KC3

Dimensions	



D - Outer Diameter	160 mm 6.299 in
Bearing Width	30 mm 1.1811 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	106312 N 23900 lbf
C0 - Static Radial Rating	71616 N 16100 lbf

Factors

Limiting Speed (Grease)	2400 rpm
Limiting Speed (Oil)	2800 rpm

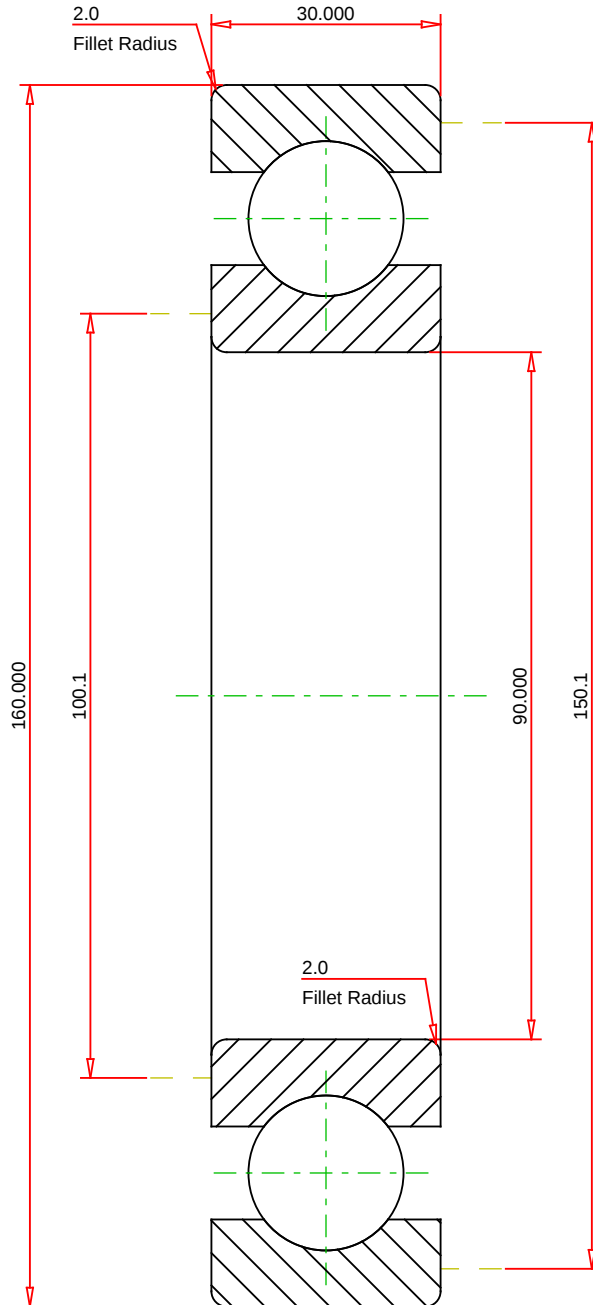
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	2 mm 0.079 in
r - Outer Ring "To Clear" Radius³	2 mm 0.079 in
da - Inner Ring Backing Diameter	100.10 mm 3.940 in
Da - Outer Ring Backing Diameter	150.10 mm 5.910 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	10 2.209 kg		218K Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)		
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	Dynamic Radial Rating106312 N		
			Static Radial Rating71616 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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