



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 310KDDG, 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	50 mm
Ball Type	STEEL
Manufacturing Part Number	310KDDG Z6 FS50000

Dimensions	



D - Outer Diameter 110 mm
4.331 in

Bearing Width 27 mm
1.063 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹ 68600 N
15400 lbf

C0 - Static Radial Rating 37900 N
8510 lbf

Factors

Limiting Speed (Grease) 3750 rpm

Limiting Speed (Oil) 4375 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

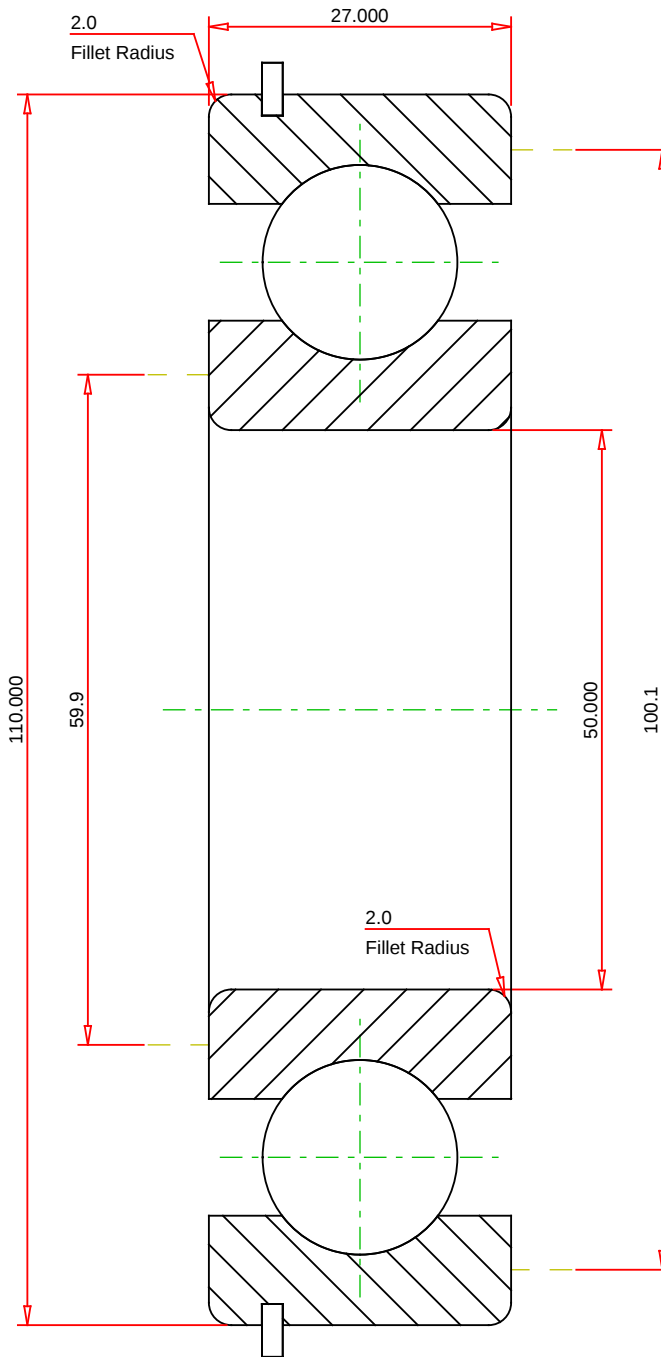
da - Inner Ring Backing Diameter 59.90 mm
2.3583 in

Da - Outer Ring Backing Diameter 100.10 mm
3.9409 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 1.125 kg	TIMKEN®	310KDDG Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	Dynamic Radial Rating68600 N Static Radial Rating37900 N	

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