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Part Number 313K, 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	65 mm
Ball Type	STEEL
Manufacturing Part Number	313KFS50000

Dimensions	
D - Outer Diameter	140 mm
 Bearing Width	33 mm

Basic Load Ratings

Ce - Dynamic Radial Rating¹ 102754 N

C0 - Static Radial Rating 59606 N

Factors

Limiting Speed (Grease) 2930 rpm

Limiting Speed (Oil) 3410 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius² 2.11 mm

r - Outer Ring "To Clear" Radius³ 2.11 mm

da - Inner Ring Backing Diameter 77.00 mm

Da - Outer Ring Backing Diameter 128.00 mm

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.

