


The Timken Company

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Part Number 217WDN, Fafnir® Maximum Capacity Ball Bearings (200W, 300W)

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	85 mm
Ball Type	STEEL

Dimensions



D - Outer Diameter	150 mm 5.9055 in
Bearing Width	28 mm 1.1024 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	127400 N 28600 lbf
C0 - Static Radial Rating	99000 N 22300 lbf

Factors

Limiting Speed (Grease)	2128 rpm
Limiting Speed (Oil)	2553 rpm

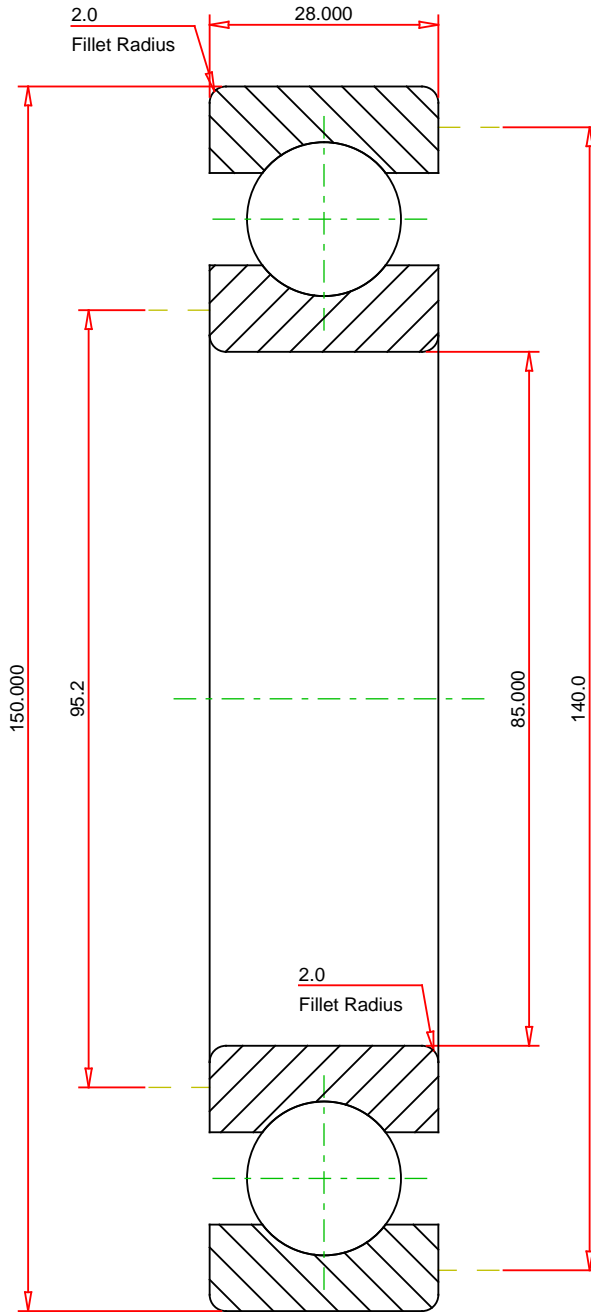
Abutment and Fillet Dimensions

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	95.20 mm 3.7480 in
Da - Outer Ring Backing Diameter	140.0 mm 5.5118 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	16
Bearing Weight	2.018 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Dynamic Radial Rating	127400 N
Static Radial Rating	99000 N

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