


The Timken Company

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Part Number 208W, 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	40 mm
Ball Type	STEEL
Manufacturing Part Number	208WC2

Dimensions



D - Outer Diameter 80 mm
3.1496 in

Bearing Width 18 mm
0.7087 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹ 46200 N
10400 lbf

C0 - Static Radial Rating 28700 N
6440 lbf

Factors

Limiting Speed (Grease) 4167 rpm

Limiting Speed (Oil) 5000 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius² 1.1 mm
0.043 in

r - Outer Ring "To Clear" Radius³ 1.1 mm
0.043 in

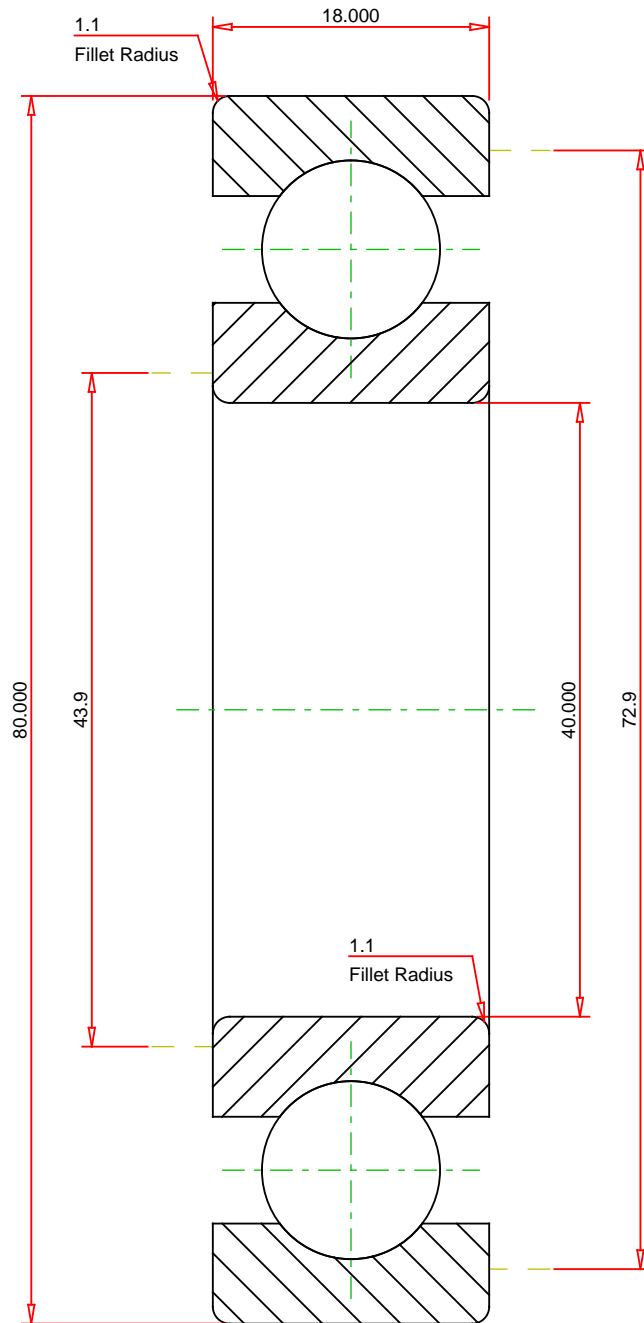
da - Inner Ring Backing Diameter 43.90 mm
1.7283 in

Da - Outer Ring Backing Diameter 72.90 mm
2.8700 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	13
Bearing Weight	0.413 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

208W	
Fafnir® Maximum Capacity Ball Bearings (200W, 300W)	
Dynamic Radial Rating	46200 N
Static Radial Rating	28700 N

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