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# Timken Part Number 7311WN, Fafnir® Single Row Angular Contact Ball Bearings (7200, 7300, 7400)

Timken® angular contact ball bearings are designed for combination radial and axial loading. Single-row bearings have high thrust capacity in one direction. Some single-row bearings are specifically designed for duplex mounting in sets for maximum performance.



Dimensions | Basic Load Ratings | Specifications | Abutment and Fillet Dimensions

## Dimensions

| | |
|---|---|
| **d - Bore** | 55.000 mm<br>2.1654 in |
| **D - Outer Diameter** | 120.000 mm<br>4.7244 in |
| **Bearing Width** | 29.000 mm<br>1.1417 in |
| **Contact Angle** | 40 ° |
| **do - Ball Diameter** | 20.63750 mm<br>0.81250 in |

## Basic Load Ratings

| | |
|---|---|
| **C0 - Static Radial Rating** | 56400 N<br>12700 lbf |
| **Ce - Dynamic Radial Rating[1]** | 88800 N<br>20000 lbf |

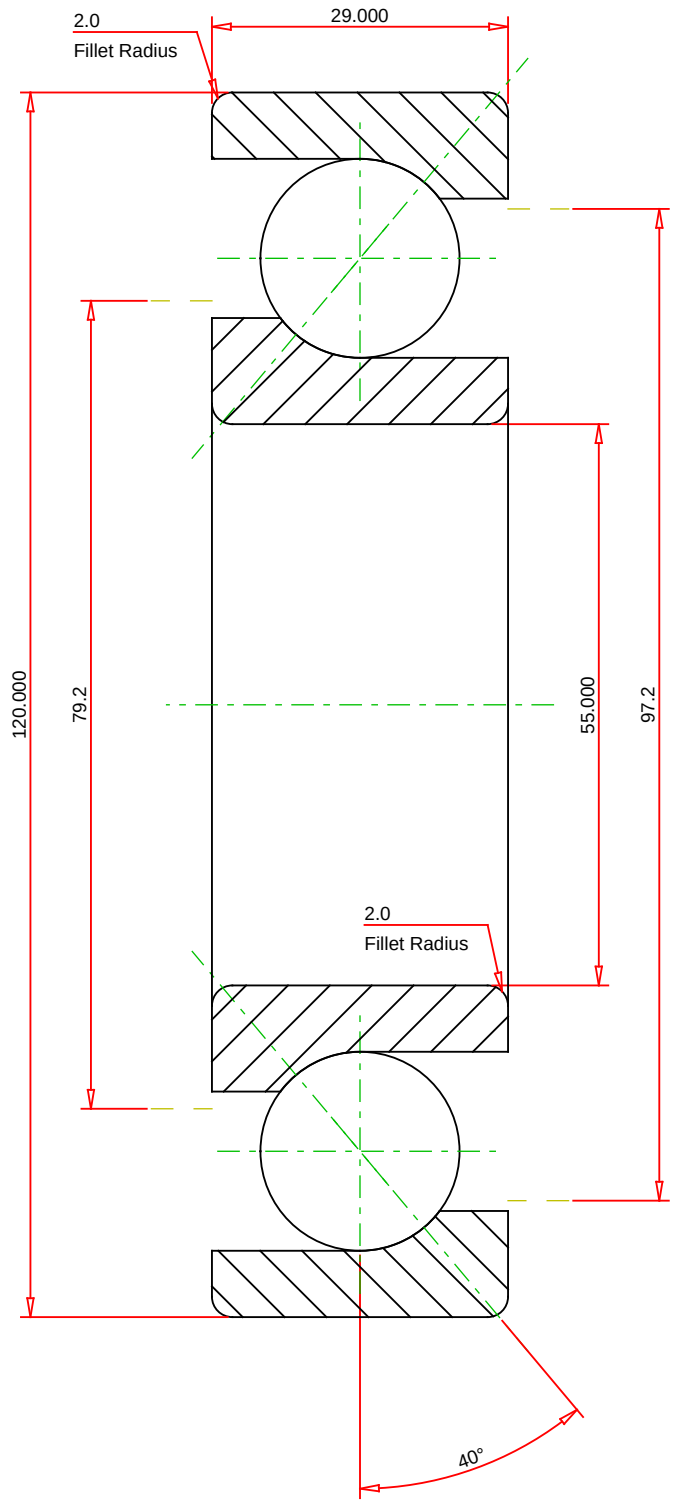
## Specifications

| | |
|---|---|
| **Ball Type** | Steel |
| **Cage Type** | Ball Piloted, Pressed Brass Cage |
| **Bearing Weight** | 1.592 Kg<br>3.51 lb |
| **Design Units** | METRIC |

## Abutment and Fillet Dimensions

| | |
|---|---|
| **R - Inner Ring "To Clear" Radius[2]** | 2.000 mm<br>0.079 in |
| **r - Outer Ring "To Clear" Radius[3]** | 2.000 mm<br>0.079 in |
| **da - Inner Ring Backing Diameter** | 79.170 mm<br>3.117 in |
| **Da - Outer Ring Backing Diameter** | 97.180 mm<br>3.826 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 | 12 | |
| Bearing Weight | 1.592 | kg |

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

# 7311WN

Fafnir® Single Row Angular Contact Ball Bearings
(7200, 7300, 7400)

| | | |
|---|---|---|
| Dynamic Radial Rating | 88800 | N |
| Static Radial Rating | 56400 | 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.

FOR DISCUSSION ONLY