


**The Timken Company**

4500 Mt Pleasant St. NW

N. Canton, OH 44720

**Phone:** (234) 262-3000

**E-Mail:** [CustomerCAD@timken.com](mailto:CustomerCAD@timken.com) • **Web site:** [www.timken.com](http://www.timken.com)

## Timken Part Number 2MMC9104WI, Fafnir® Spindle Angular Contact Ball Bearings (9300WI, 9100WI, 200WI, 300WI)

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](#) | [Factors](#) | [Specifications](#) | [Abutment and Fillet Dimensions](#)

### Dimensions

|                           |                           |
|---------------------------|---------------------------|
| <b>d - Bore</b>           | 20.000 mm<br>0.7874 in    |
| <b>D - Outer Diameter</b> | 42.000 mm<br>1.6535 in    |
| <b>Bearing Width</b>      | 12.000 mm<br>0.4724 in    |
| <b>Contact Angle</b>      | 15 °                      |
| <b>do - Ball Diameter</b> | 6.350000 mm<br>0.25000 in |

## Basic Load Ratings

|                                               |                     |
|-----------------------------------------------|---------------------|
| <b>C0 - Static Radial Rating</b>              | 5350 N<br>1200 lbf  |
| <b>Ce - Dynamic Radial Rating<sup>1</sup></b> | 11600 N<br>2610 lbf |

## Factors

|                                |           |
|--------------------------------|-----------|
| <b>Limiting Speed (Grease)</b> | 44520 rpm |
| <b>Limiting Speed (Oil)</b>    | 89040 rpm |

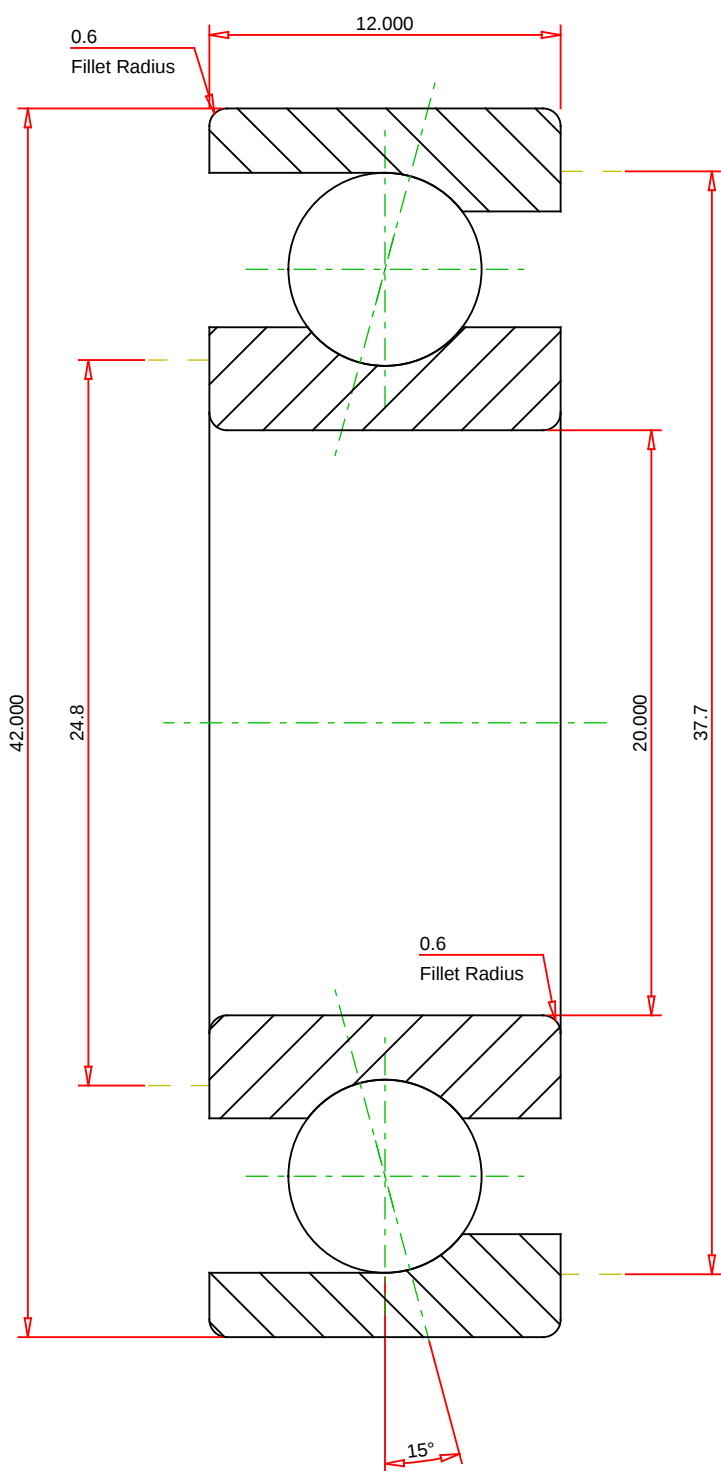
## Specifications

|                        |                                      |
|------------------------|--------------------------------------|
| <b>Ball Type</b>       | Ceramic                              |
| <b>Cage Type</b>       | CR - Phenolic Outer Land Riding Cage |
| <b>Bearing Weight</b>  | 0.067 Kg<br>0.15 lb                  |
| <b>Design Units</b>    | METRIC                               |
| <b>Precision Class</b> | ISO P4S (ABEC 7/9)                   |

## Abutment and Fillet Dimensions

|                                                         |                       |
|---------------------------------------------------------|-----------------------|
| <b>R - Inner Ring "To Clear"<br/>Radius<sup>2</sup></b> | 0.600 mm<br>0.024 in  |
| <b>r - Outer Ring "To Clear"<br/>Radius<sup>3</sup></b> | 0.600 mm<br>0.024 in  |
| <b>da - Inner Ring Backing<br/>Diameter</b>             | 24.800 mm<br>0.980 in |
| <b>Da - Outer Ring Backing<br/>Diameter</b>             | 37.700 mm<br>1.490 in |

- <sup>1</sup> Based on  $10^6$  revolutions of calculated fatigue life.
- <sup>2</sup> Maximum housing fillet radius that bearing corners will clear.
- <sup>3</sup> Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

|                                           |                |                                                          |                                                                                 |       |   |
|-------------------------------------------|----------------|----------------------------------------------------------|---------------------------------------------------------------------------------|-------|---|
| Number of Balls Per Row<br>Bearing Weight | 11<br>0.067 kg | <div>TIMKEN®</div>                                       | 2MMC9104WI                                                                      |       |   |
|                                           |                | <div>THE TIMKEN COMPANY<br/>NORTH CANTON, OHIO USA</div> | Fafnir® Spindle Angular Contact Ball Bearings<br>(9300WI, 9100WI, 200WI, 300WI) |       |   |
|                                           |                |                                                          | Dynamic Radial Rating                                                           | 11600 | N |
|                                           |                |                                                          | Static Radial Rating                                                            | 5350  | N |