


**The Timken Company**

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Timken Part Number 2MM9324WI, 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.



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**Dimensions**

|                           |                             |
|---------------------------|-----------------------------|
| <b>d - Bore</b>           | 120.000 mm<br>4.7244 in     |
| <b>D - Outer Diameter</b> | 165.000 mm<br>6.4961 in     |
| <b>Bearing Width</b>      | 22.000 mm<br>0.8661 in      |
| <b>Contact Angle</b>      | 15 °                        |
| <b>do - Ball Diameter</b> | 11.906250 mm<br>0.468750 in |

## Basic Load Ratings

|                                               |                      |
|-----------------------------------------------|----------------------|
| <b>C0 - Static Radial Rating</b>              | 66900 N<br>15000 lbf |
| <b>Ce - Dynamic Radial Rating<sup>1</sup></b> | 62000 N<br>13900 lbf |

## Factors

|                                |           |
|--------------------------------|-----------|
| <b>Limiting Speed (Grease)</b> | 7700 rpm  |
| <b>Limiting Speed (Oil)</b>    | 15400 rpm |

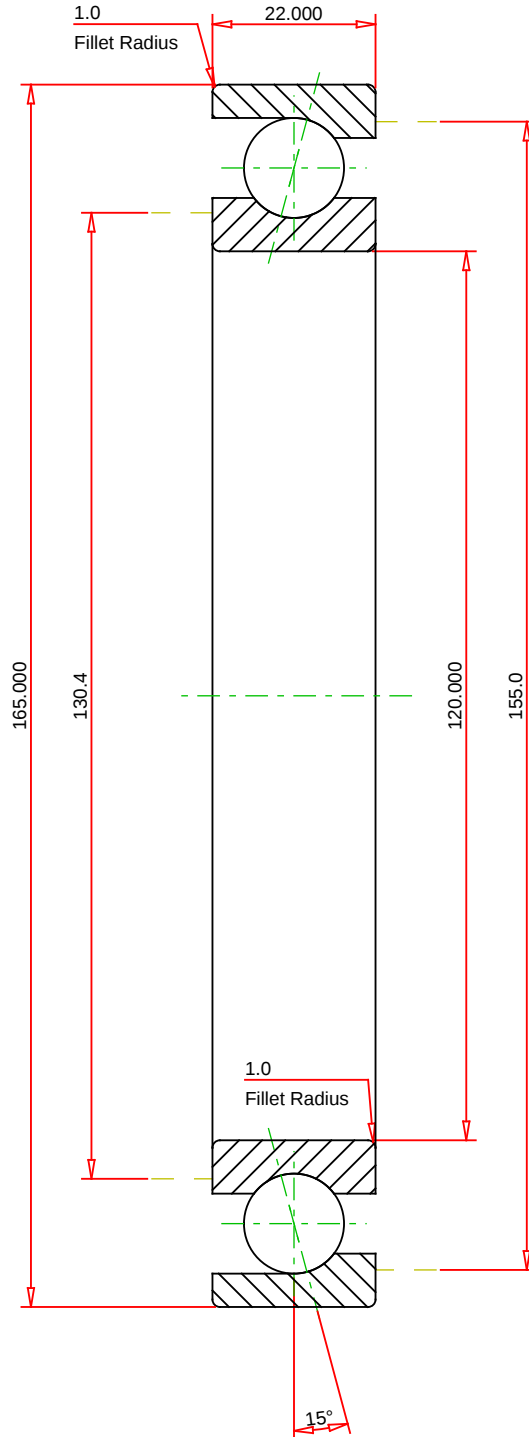
## Specifications

|                        |                                      |
|------------------------|--------------------------------------|
| <b>Ball Type</b>       | Steel                                |
| <b>Cage Type</b>       | CR - Phenolic Outer Land Riding Cage |
| <b>Bearing Weight</b>  | 1.240 Kg<br>2.74 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> | 1.000 mm<br>0.039 in   |
| <b>r - Outer Ring "To Clear"<br/>Radius<sup>3</sup></b> | 1.000 mm<br>0.039 in   |
| <b>da - Inner Ring Backing<br/>Diameter</b>             | 130.400 mm<br>5.130 in |
| <b>Da - Outer Ring Backing<br/>Diameter</b>             | 155.000 mm<br>6.100 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 | 30<br>1.240 kg | TIMKEN®                                      |  | 2MM9324WI<br>Fafnir® Spindle Angular Contact Ball Bearings<br>(9300WI, 9100WI, 200WI, 300WI) |         |
|                                           |                | THE TIMKEN COMPANY<br>NORTH CANTON, OHIO USA |  | Dynamic Radial Rating                                                                        | 62000 N |
|                                           |                |                                              |  | Static Radial Rating                                                                         | 66900 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.

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