


**The Timken Company**

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## Part Number 2MMVC9120HXCRQULFS637, Fafnir® High Speed Spindle Angular Contact Ball Bearings (9300HX, 9100HX)

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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### Specifications

|                         |                                      |
|-------------------------|--------------------------------------|
| <b>Rows per Set</b>     | Quadruplex                           |
| <b>Seal Type</b>        | Standard                             |
| <b>Design Units</b>     | Metric                               |
| <b>d - Bore</b>         | 100 mm                               |
| <b>Ball Type</b>        | Ceramic                              |
| <b>Cage Type</b>        | CR - Phenolic Outer Land Riding Cage |
| <b>Precision Rating</b> | ISO P4S (ABEC 7/9)                   |

### Dimensions



**d - Outer Diameter** 150 mm

|                      |       |
|----------------------|-------|
| <b>Bearing Width</b> | 24 mm |
| <b>Total Width</b>   | 96 mm |
| <b>Contact Angle</b> | 15 °  |

### Basic Load Ratings

|   |         |
|---|---------|
| <b>C0 - Static Radial Rating (per row)</b>              | 35000 N |
| <b>Ce - Dynamic Radial Rating (per row)<sup>1</sup></b> | 48200 N |
| <b>C1 ISO - Dynamic Radial Rating (per row)</b>         | 43800 N |

### Factors

|  |           |
|--|-----------|
| <b>Limiting Speed (Grease) (per row)</b> | 12960 rpm |
| <b>Limiting Speed (Oil)</b>              | 25920 rpm |

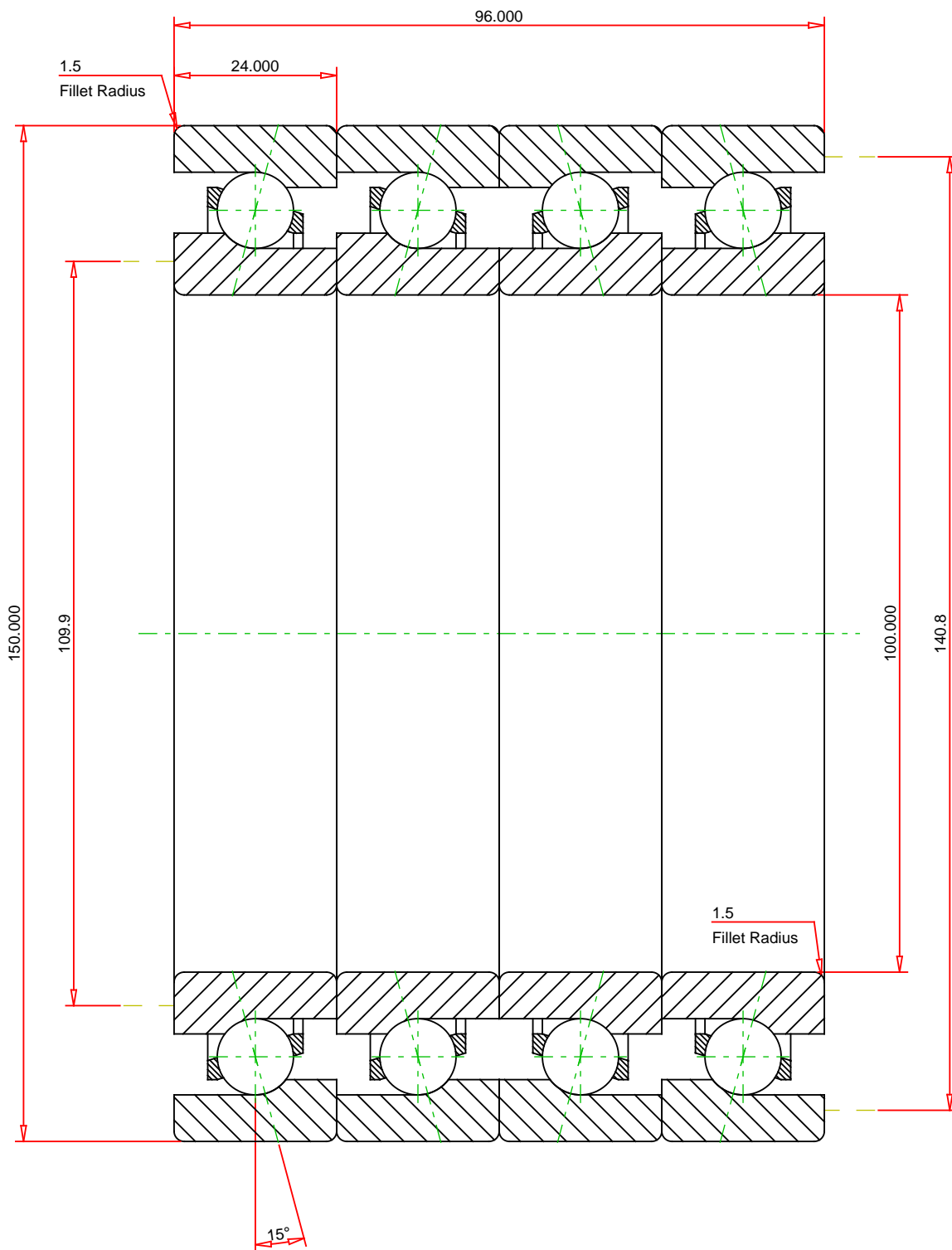
### Abutment and Fillet Dimensions

|   |          |
|---|----------|
| <b>R - Inner Ring "To Clear" Radius<sup>2</sup></b> | 1.5 mm   |
| <b>r - Outer Ring "To Clear" Radius<sup>3</sup></b> | 1.5 mm   |
| <b>da - Inner Ring Backing Diameter</b>             | 109.9 mm |
| <b>Da - Outer Ring Backing Diameter</b>             | 140.8 mm |

<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 | 27       |
| Bearing Weight          | 5.152 kg |

**TIMKEN**®

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NORTH CANTON, OHIO USA

**2MMVC9120HXCQRULFS637**  
Fafnir® High Speed Spindle Angular Contact Ball Bearings (9300HX, 9100HX)

|                       |       |   |
|-----------------------|-------|---|
| Dynamic Radial Rating | 48200 | N |
| Static Radial Rating  | 35000 | 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**