


**The Timken Company**

4500 Mt Pleasant St. NW

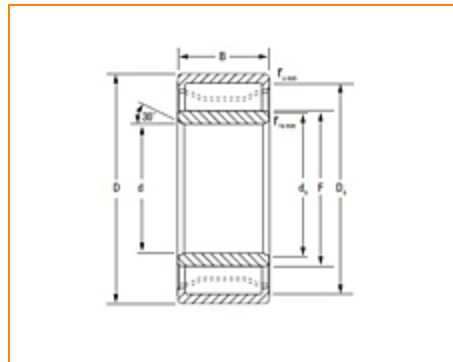
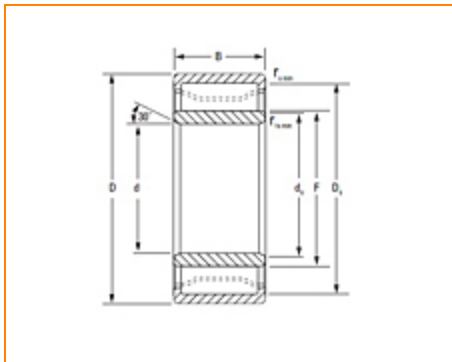
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## Part Number A-5238-WS, Cylindrical Roller Radial Bearings - 5200, A5200 Metric Series

The radial internal clearance (RIC) for the bearing assembly must be included when ordering either a) the complete assembly or b) with the inner-ring set.



[Specifications](#) | [Bearing Dimensions](#) | [Mounting Data](#)

### Specifications

|   |                         |
|---|-------------------------|
| <b>Bore d</b>                                 | 190 mm                  |
| <b>Static Load Rating <math>C_0</math></b>    | 2340000 N<br>526000 lbf |
| <b>Dynamic Load Rating <math>C_1^1</math></b> | 1670000 N<br>376000 lbf |
| <b>Dimension <math>S^2</math></b>             | 5.70 mm<br>0.220 in     |
| <b>Geometry Factor <math>C_g^3</math></b>     | 0.1860                  |
| <b>Thermal Speed Ratings - Oil</b>            | 1100 rpm                |
| <b>Thermal Speed Ratings - Grease</b>         | 1010 rpm                |

### Bearing Dimensions



|                    |                         |
|--------------------|-------------------------|
| <b>O.D. D</b>      | 340 mm<br>13.3858 in    |
| <b>Width B</b>     | 114.3 mm<br>4.5000 in   |
| <b>DUR/DOR F/E</b> | 229.105 mm<br>9.0199 in |
| <b>Type</b>        | WS                      |

# Mounting Data

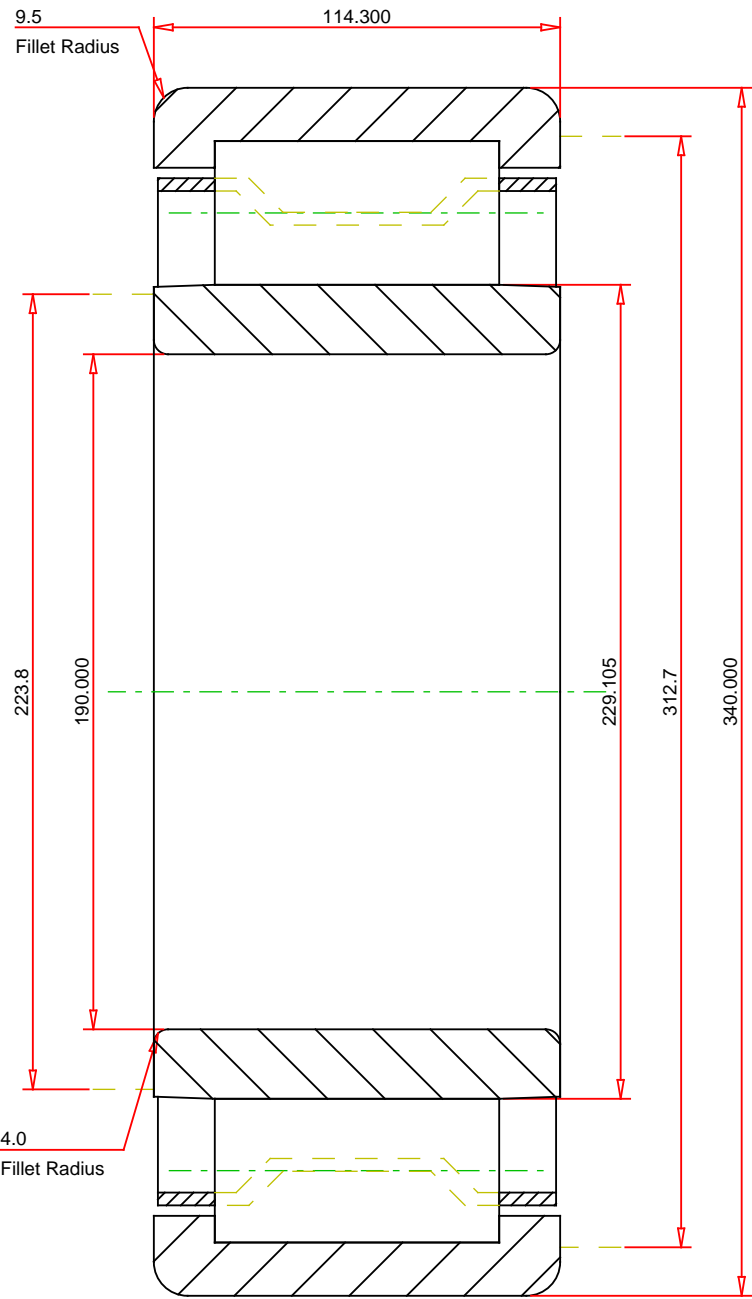
|  |                        |
|--|------------------------|
| <b>Chamfer <math>r_{smin}</math></b>             | 9.5 mm<br>0.370 in     |
| <b>Chamfer <math>r_{1smin}^4</math></b>          | 4 mm<br>0.160 in       |
| <b>Backing Shaft Diameter <math>d_s</math></b>   | 223.8 mm<br>8.8100 in  |
| <b>Backing Housing Diameter <math>D_s</math></b> | 312.7 mm<br>12.3100 in |

<sup>1</sup> Based on 1 x 10<sup>6</sup> revolutions L<sub>10</sub> life, for the ISO life calculation method.

<sup>2</sup> Permissible axial displacement from normal position of one bearing ring in relation to the other.

<sup>3</sup> C<sub>g</sub> factor for bearing without inner ring.

<sup>4</sup> Based on 1 x 10<sup>6</sup> revolutions L<sub>10</sub> life, for the ISO life calculation method.



METRIC UNITS

Bearing Weight 48.1 kg

TIMKEN®

THE TIMKEN COMPANY  
NORTH CANTON, OHIO USA

A-5238-WS  
CYLINDRICAL ROLLER BEARING

Dynamic Load Rating 1670000 N  
Static Load Rating 2340000 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