


**The Timken Company**

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**Part Number NUP2218EMA, Cylindrical Roller Radial Bearings - Single Row ISO**
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**Specifications**

<b>Design Units</b>	Metric
<b>d - Bore</b>	90 mm
<b>Type</b>	NUP

**Dimensions**

<b>D - Outer Diameter</b>	160 mm 6.2992 in
<b>C - Inner Ring Width</b>	40 mm 1.5748 in
<b>B - Outer Ring Width</b>	40 mm 1.5748 in

**Basic Load Ratings**

<b>C0 - Static Radial Rating</b>	322000 N 72400 lbf
<b>C - Dynamic Radial Rating<sup>1</sup></b>	275000 N 61900 lbf

**F** rs


**Reference Thermal Speed Rating (Grease)** 3100 rpm

**Reference Thermal Speed Rating (Oil)<sup>2</sup>** 3600 rpm

**C<sub>g</sub> - Geometry Factor<sup>3</sup>** 0.094

## Abutment and Fillet Dimensions

**R - Inner Ring "To Clear" Radius<sup>4</sup>** 2 mm  
0.080 in

**r - Outer Ring "To Clear" Radius<sup>5</sup>** 2 mm  
0.080 in

**da - Inner Ring Backing Diameter** 102.9 mm  
4.05 in

**Da - Outer Ring Backing Diameter** 145 mm  
5.71 in

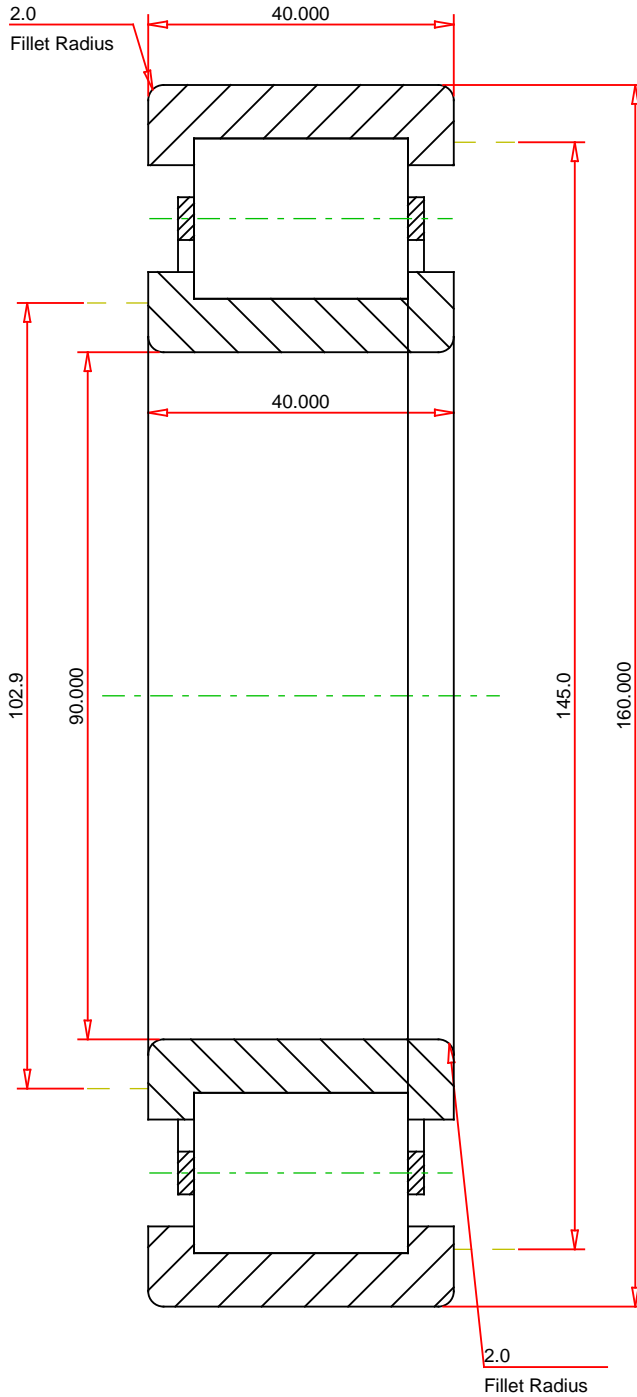
<sup>1</sup> Based on  $1 \times 10^6$  L<sub>10</sub> life for the ISO life calculation method.

<sup>2</sup> See thermal speed ratings in the engineering section.

<sup>3</sup> Geometry constant for Lubrication Life Adjustment Factor a<sub>3l</sub>.

<sup>4</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>5</sup> Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Rollers Per Row  
 Bearing Weight 3.6 kg



THE TIMKEN COMPANY  
 NORTH CANTON, OHIO USA

NUP2218EMA  
 CYLINDRICAL ROLLER BEARING

Dynamic Radial Rating 275000 N  
 Static Radial Rating 322000 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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