



**The Timken Company**

4500 Mt Pleasant St. NW

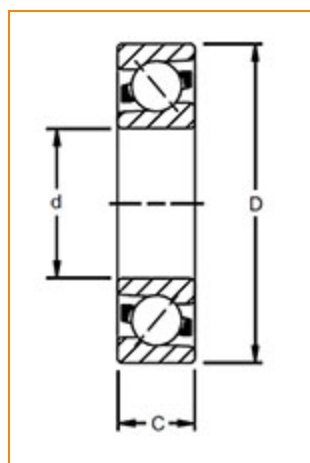
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## Part Number 7220 BM/CN, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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>	100.00 mm 3.9370 in
<b>D - Outer Diameter</b>	180.00 mm 7.0866 in
<b>Bearing Width</b>	34.00 mm 1.3386 in
<b>Contact Angle</b>	40 °

### Basic Load Ratings



**C0 - Static Radial Rating**

114000 N  
25623 lbf

<b>C1 ISO - Dynamic Radial Rating</b>	130000 N 29219 lbf
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## Factors

<b>Limiting Speed (Grease)</b>	3400 rpm
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<b>Limiting Speed (Oil)</b>	4500 rpm
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## Specifications

<b>Ball Type</b>	STEEL
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<b>Cage Type</b>	Machined
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<b>Cage Material</b>	Brass
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<b>Bearing Weight</b>	3.60 Kg 7.938 lb
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<b>Design Units</b>	METRIC
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<b>R - Inner Ring "Touch" Radius</b>	0.6
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<b>r - Outer Ring "Touch" Radius</b>	0.6
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<b>Features</b>	Open
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## Abutment and Fillet Dimensions

<b>R - Inner Ring "To Clear" Radius<sup>1</sup></b>	1.10 mm 0.043 in
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<b>r - Outer Ring "To Clear" Radius<sup>2</sup></b>	1.10 mm 0.043 in
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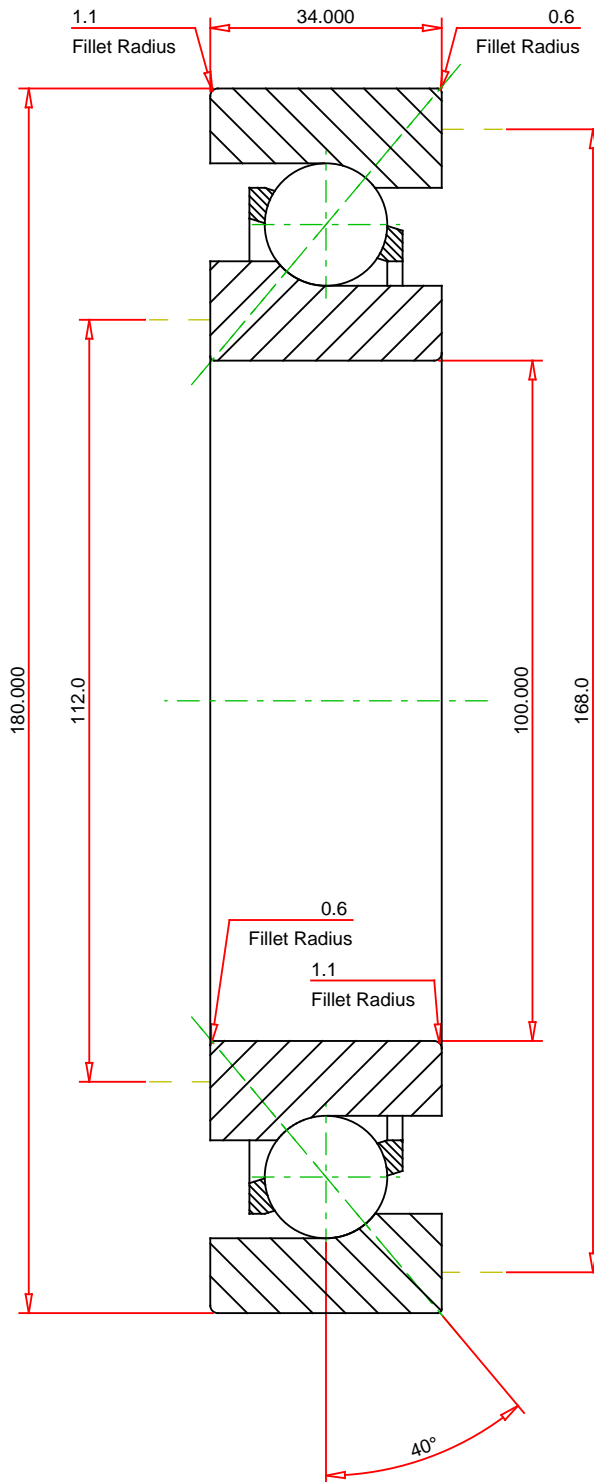
<b>da - Inner Ring Backing Diameter</b>	112.0 mm 4.409 in
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<b>Da - Outer Ring Backing</b>	168.0 mm
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**Diameter**

6.614 in

- <sup>1</sup> Maximum housing fillet radius that bearing corners will clear.
- <sup>2</sup> Maximum shaft fillet radius that bearing corners will clear.



## METRIC UNITS

<p>Number of Balls Per Row 15</p> <p>Bearing Weight 3.600 kg</p>	<p><b>TIMKEN</b>®</p> <p><b>THE TIMKEN COMPANY</b></p> <p>NORTH CANTON, OHIO USA</p>	<p><b>7220 BM/CN</b></p> <p>Timken® Single Row Angular Contact Ball Bearings (7200, 7300)</p> <p>Dynamic Radial Rating 130000 N</p> <p>Static Radial Rating 114000 N</p>
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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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