



**The Timken Company**

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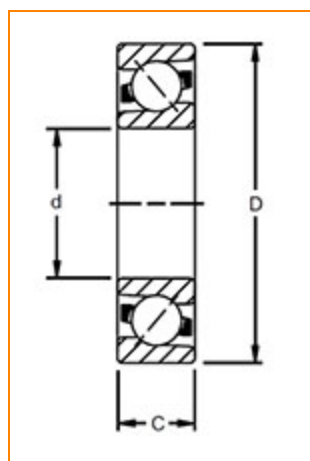
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## Part Number 7305 BTN1/CN, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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.



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### Dimensions

<b>d - Bore</b>	25.00 mm 0.9843 in
<b>D - Outer Diameter</b>	62.00 mm 2.4409 in
<b>Bearing Width</b>	17.00 mm 0.6693 in
<b>Contact Angle</b>	40 °

### Basic Load Ratings



**C0 - Static Radial Rating**

14100 N  
3169 lbf

<b>C1 ISO - Dynamic Radial Rating</b>	24400 N 5484 lbf
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## Factors

<b>Limiting Speed (Grease)</b>	11000 rpm
<b>Limiting Speed (Oil)</b>	15000 rpm

## Specifications

<b>Ball Type</b>	STEEL
<b>Cage Type</b>	Molded
<b>Cage Material</b>	Polyamide
<b>Bearing Weight</b>	0.23 Kg 0.507 lb
<b>Design Units</b>	METRIC
<b>R - Inner Ring "Touch" Radius</b>	0.6
<b>r - Outer Ring "Touch" Radius</b>	0.6
<b>Features</b>	Open

## Abutment and Fillet Dimensions

<b>R - Inner Ring "To Clear" Radius<sup>1</sup></b>	0.60 mm 0.024 in
<b>r - Outer Ring "To Clear" Radius<sup>2</sup></b>	0.60 mm 0.024 in
<b>da - Inner Ring Backing Diameter</b>	32.0 mm 1.260 in
<b>Da - Outer Ring Backing</b>	55.0 mm

**Diameter**

2.165 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.



Number of Balls Per Row	10	kg		<b>7305 BTN1/CN</b> Timken® Single Row Angular Contact Ball Bearings (7200, 7300)		
Bearing Weight	0.230					
			<b>THE TIMKEN COMPANY</b> NORTH CANTON, OHIO USA		Dynamic Radial Rating	24400 N
					Static Radial Rating	14100 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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