



The Timken Company

4500 Mt Pleasant St. NW

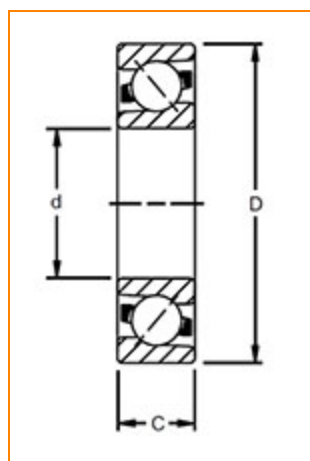
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Part Number 7305 BTN1/UL, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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

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

Basic Load Ratings



C0 - Static Radial Rating

14100 N
3169 lbf

C1 ISO - Dynamic Radial Rating	24400 N 5484 lbf
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Factors

Limiting Speed (Grease)	11000 rpm
Limiting Speed (Oil)	15000 rpm

Specifications

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

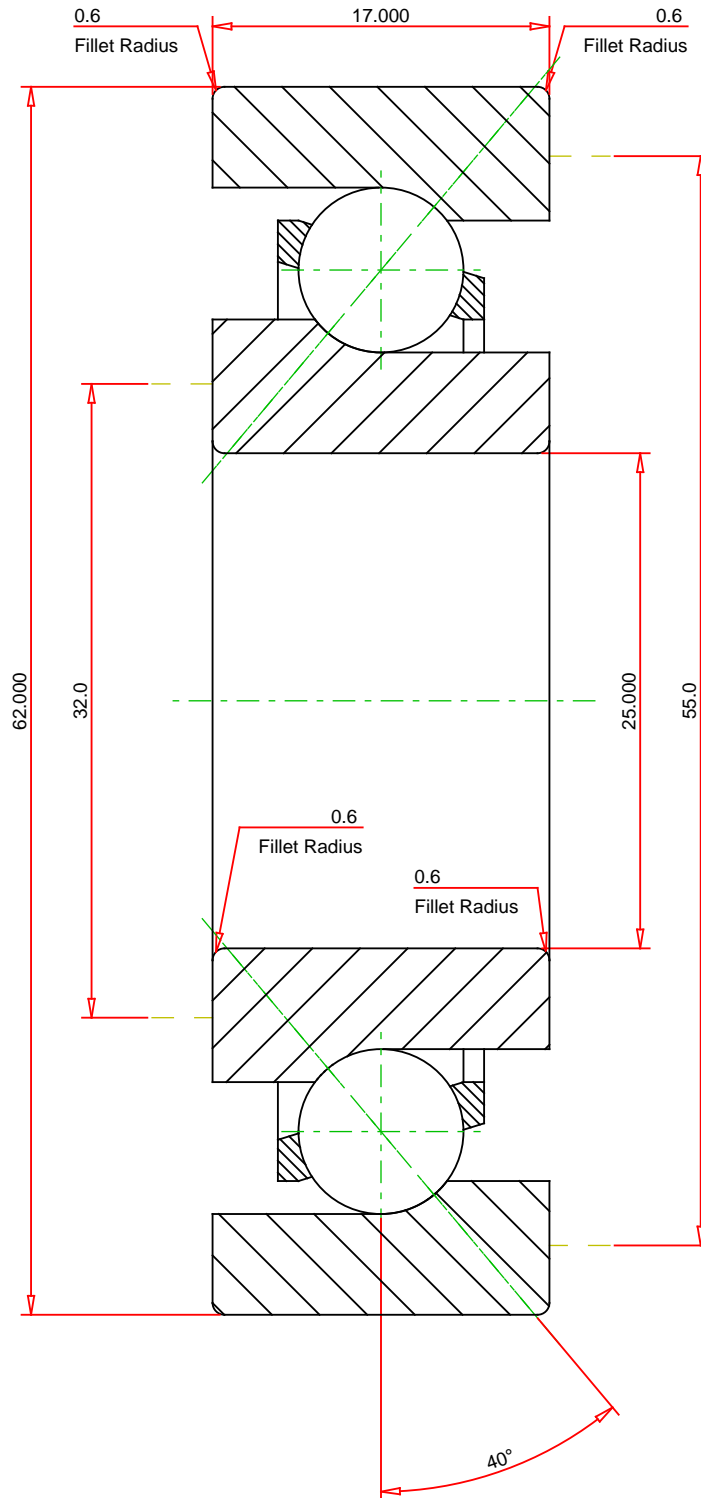
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	0.60 mm 0.024 in
r - Outer Ring "To Clear" Radius²	0.60 mm 0.024 in
da - Inner Ring Backing Diameter	32.0 mm 1.260 in
Da - Outer Ring Backing	55.0 mm

Diameter

2.165 in

- ¹ Maximum housing fillet radius that bearing corners will clear.
- ² Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

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