

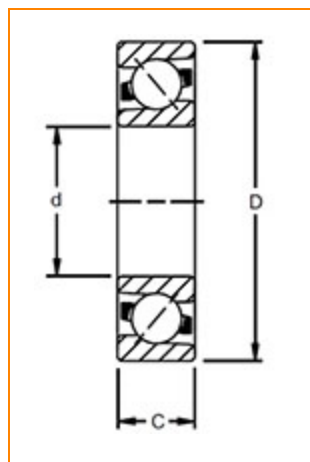
**TIMKEN****The Timken Company**

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**Phone:** (234) 262-3000**E-Mail:** [CustomerCAD@timken.com](mailto:CustomerCAD@timken.com) • **Web site:** [www.timken.com](http://www.timken.com)**Part Number 7307 BTN1, 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>	35.00 mm 1.378 in
<b>D - Outer Diameter</b>	80.00 mm 3.1496 in
<b>Bearing Width</b>	21.00 mm 0.8268 in
<b>Contact Angle</b>	40 °

**Basic Load Ratings****C0 - Static Radial Rating**24200 N  
5439 lbf

28400 N

C1 ISO - Dynamic Radial Rating      38400 N  
8631 lbf

## Factors

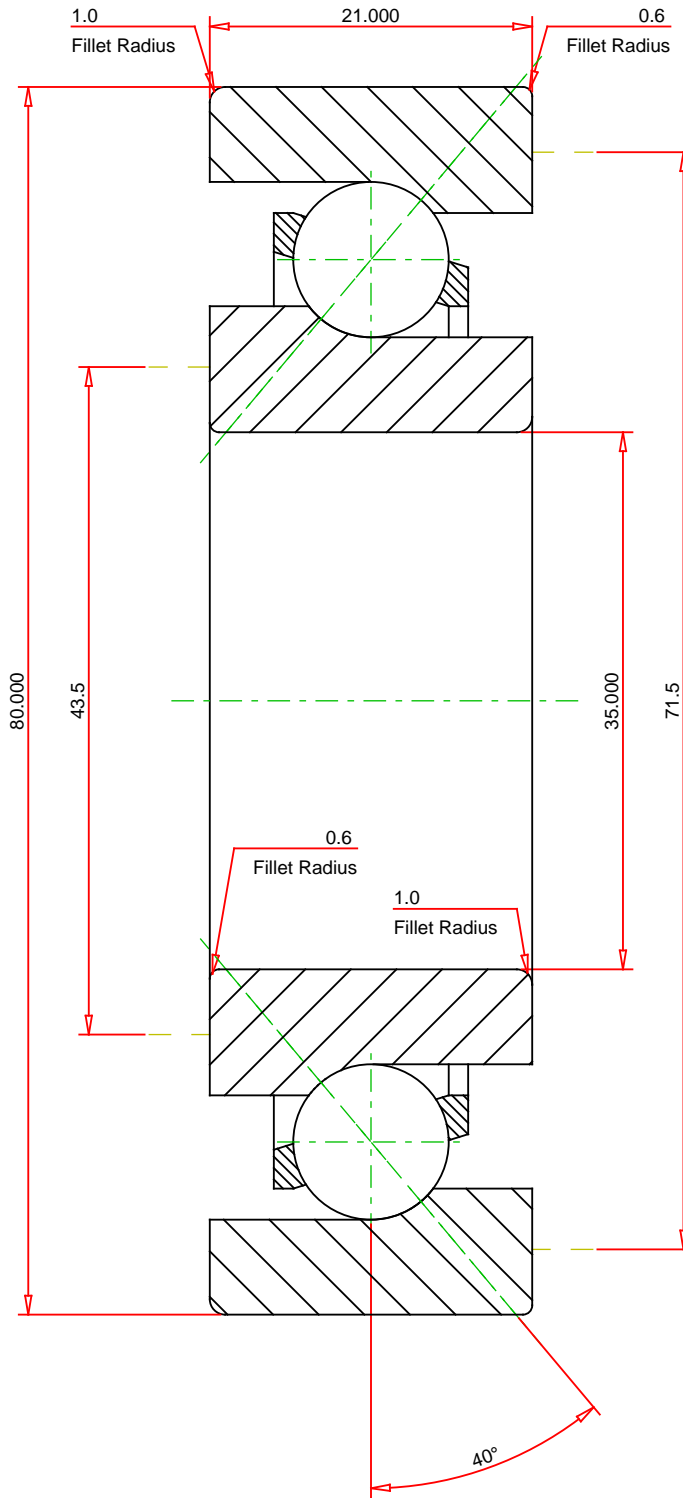
Limiting Speed (Grease)      8400 rpm  
Limiting Speed (Oil)      11000 rpm

## Specifications

Ball Type      STEEL  
Cage Type      Molded  
Cage Material      Polyamide  
Bearing Weight      0.47 Kg  
1.036 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" Radius<sup>1</sup>      1.00 mm  
0.039 in  
r - Outer Ring "To Clear" Radius<sup>2</sup>      1.00 mm  
0.039 in  
da - Inner Ring Backing Diameter      43.5 mm  
1.713 in  
Da - Outer Ring Backing Diameter      71.5 mm  
2.815 in



METRIC UNITS

Number of Balls Per Row 11  
 Bearing Weight 0.470 kg

**TIMKEN**®

**7307 BTN1**  
 Timken® Single Row Angular Contact Ball Bearings  
 (7200, 7300)

**THE TIMKEN COMPANY**  
 NORTH CANTON, OHIO USA

Dynamic Radial Rating 38400 N  
 Static Radial Rating 24200 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**