

TIMKEN

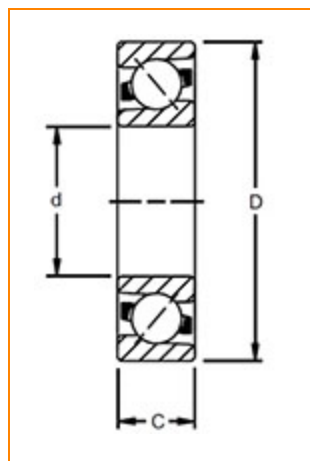
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Part Number 7307 BTN1/CN, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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.



[Dimensions](#) | [Basic Load Ratings](#) | [Factors](#) | [Specifications](#) | [Abutment and Fillet Dimensions](#)

Dimensions

d - Bore	35.00 mm 1.378 in
D - Outer Diameter	80.00 mm 3.1496 in
Bearing Width	21.00 mm 0.8268 in
Contact Angle	40 °

Basic Load Ratings



C0 - Static Radial Rating

24200 N
5439 lbf

C1 ISO - Dynamic Radial Rating	38400 N 8631 lbf
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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

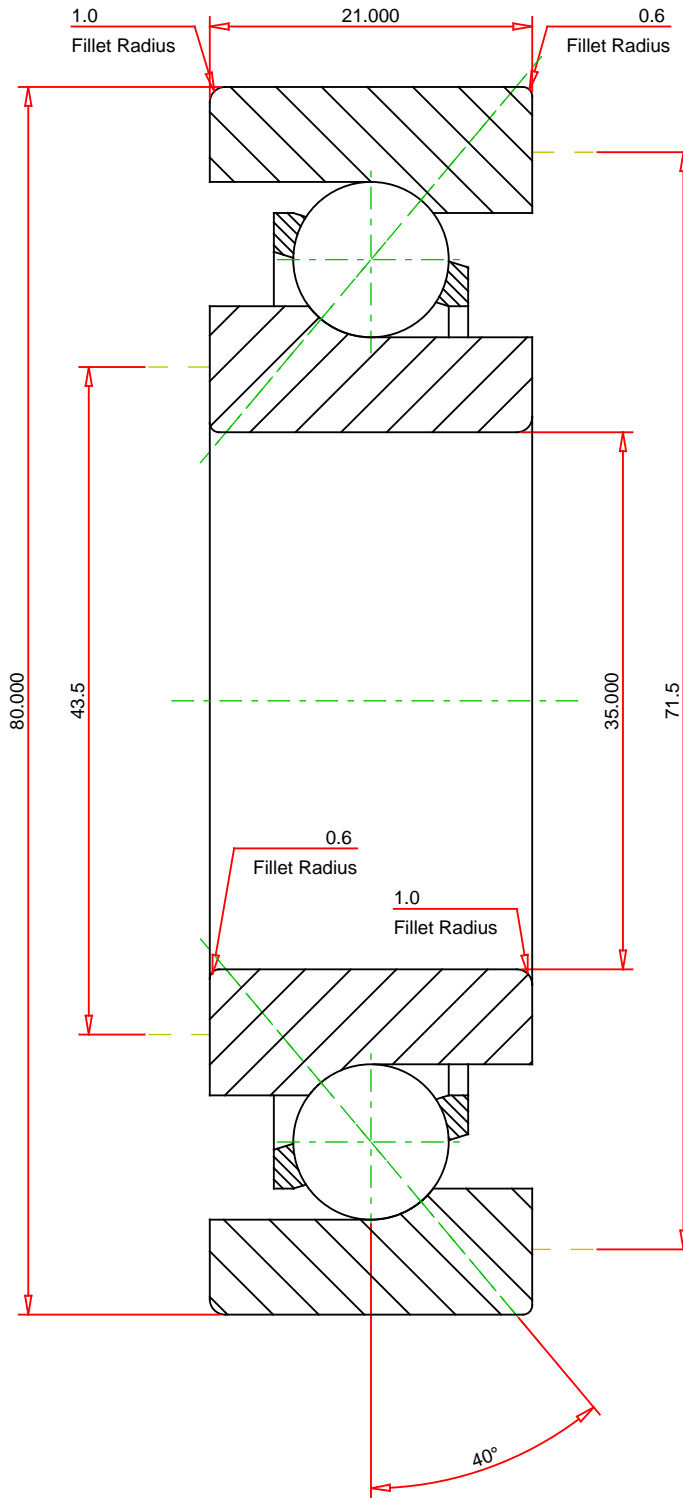
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	1.00 mm 0.039 in
r - Outer Ring "To Clear" Radius²	1.00 mm 0.039 in
da - Inner Ring Backing Diameter	43.5 mm 1.713 in
Da - Outer Ring Backing	71.5 mm

Diameter

2.815 in

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



METRIC UNITS

Number of Balls Per Row 11
 Bearing Weight 0.470 kg

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 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