

TIMKEN**The Timken Company**

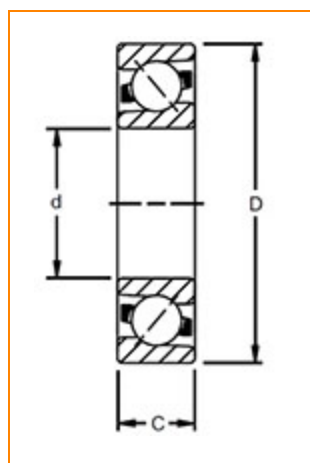
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Part Number 7308 BTN1/UL, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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	40.00 mm 1.5748 in
D - Outer Diameter	90.00 mm 3.5433 in
Bearing Width	23.00 mm 0.9055 in
Contact Angle	40 °

Basic Load Ratings



C0 - Static Radial Rating

27700 N
6226 lbf

C1 ISO - Dynamic Radial Rating	42200 N 9485 lbf
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Factors

Limiting Speed (Grease)	7400 rpm
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Limiting Speed (Oil)	9900 rpm
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Specifications

Ball Type	STEEL
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Cage Type	Molded
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Cage Material	Polyamide
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Bearing Weight	0.64 Kg 1.411 lb
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Design Units	METRIC
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R - Inner Ring "Touch" Radius	0.6
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r - Outer Ring "Touch" Radius	0.6
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Features	Open
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	1.00 mm 0.039 in
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r - Outer Ring "To Clear" Radius²	1.00 mm 0.039 in
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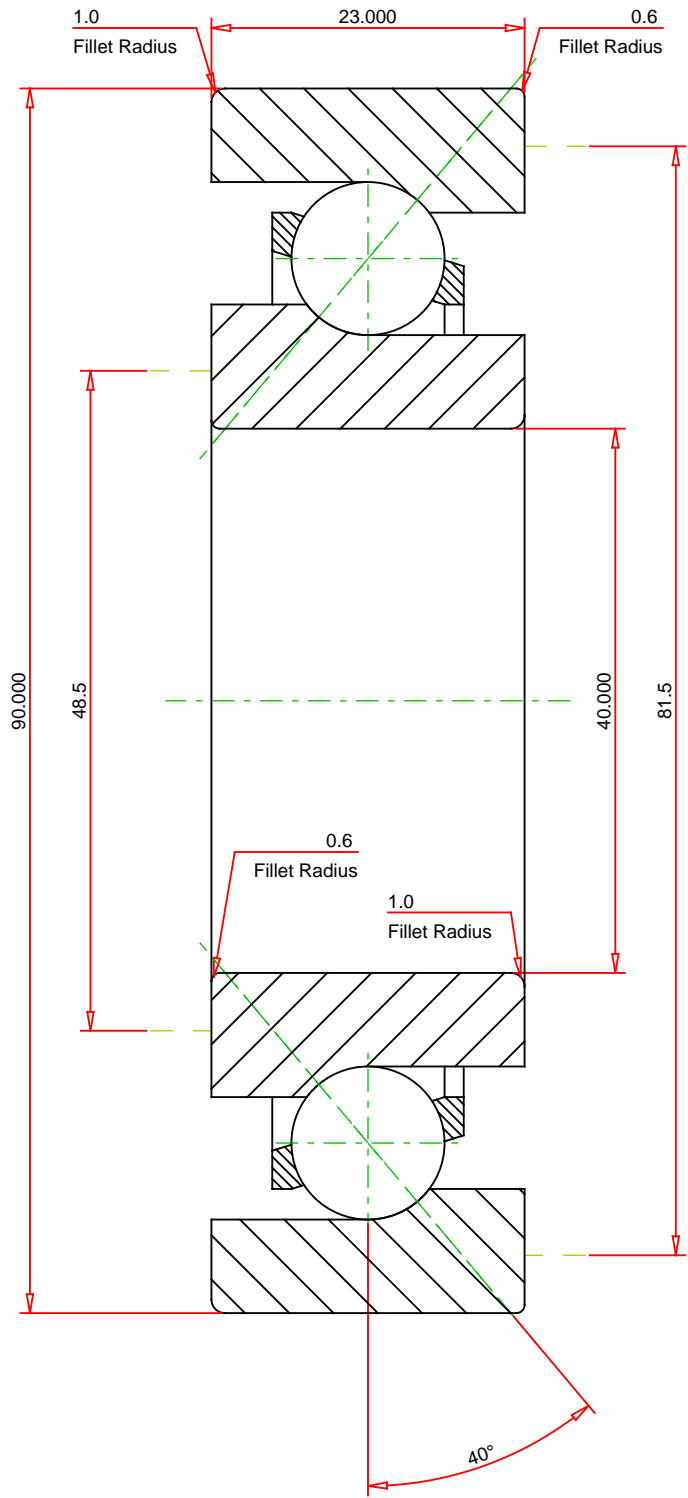
da - Inner Ring Backing Diameter	48.5 mm 1.909 in
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Da - Outer Ring Backing	81.5 mm
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Diameter

3.209 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	0.640 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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

Dynamic Radial Rating	42200	N
Static Radial Rating	27700	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