The Timken Company
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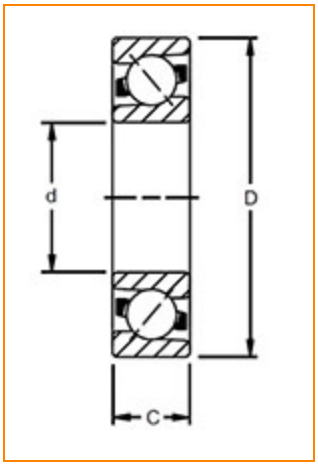
Part Number 7312 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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

d - Bore	60.00 mm 2.3622 in
D - Outer Diameter	130.00 mm 5.1181 in
Bearing Width	31.00 mm 1.2205 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	60000 N 13486 lbf
	84800 N

C1 ISO - Dynamic Radial Rating	84900 N 19082 lbf

Factors

Limiting Speed (Grease)	5100 rpm
Limiting Speed (Oil)	6800 rpm

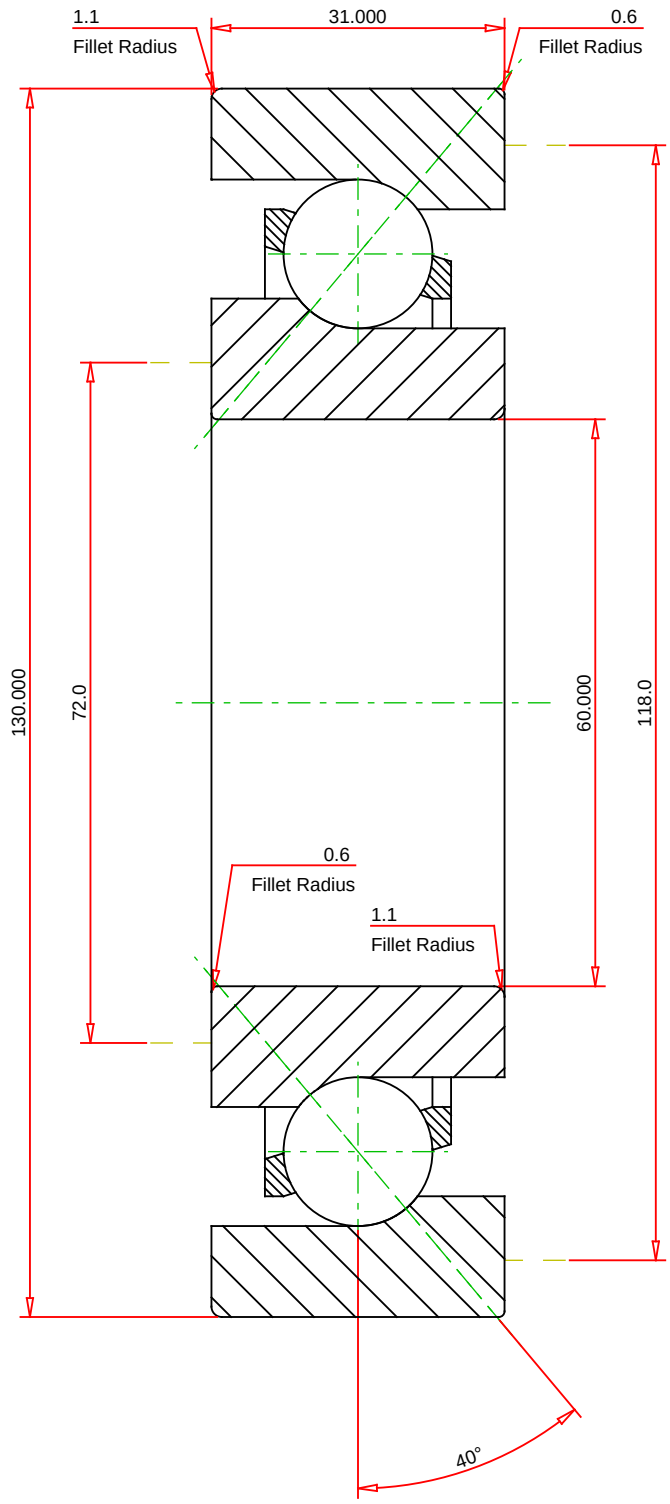
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	1.77 Kg 3.903 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[1]	1.10 mm 0.043 in
r - Outer Ring "To Clear" Radius[2]	1.10 mm 0.043 in
da - Inner Ring Backing Diameter	72.0 mm 2.835 in
Da - Outer Ring Backing Diameter	118.0 mm 4.646 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	1.770	kg

TIMKEN®

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NORTH CANTON, OHIO USA

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(7200, 7300)

Dynamic Radial Rating	84900	N
Static Radial Rating	60000	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