The Timken Company
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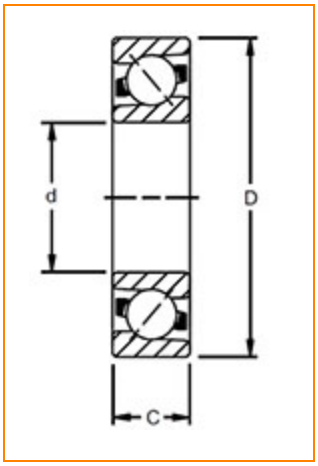
Part Number 7212 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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	110.00 mm 4.3307 in
Bearing Width	22.00 mm 0.8661 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	44500 N 10001 lbf
	56000 N

C1 ISO - Dynamic Radial Rating	56000 N 12585 lbf

Factors

Limiting Speed (Grease)	5700 rpm
Limiting Speed (Oil)	7600 rpm

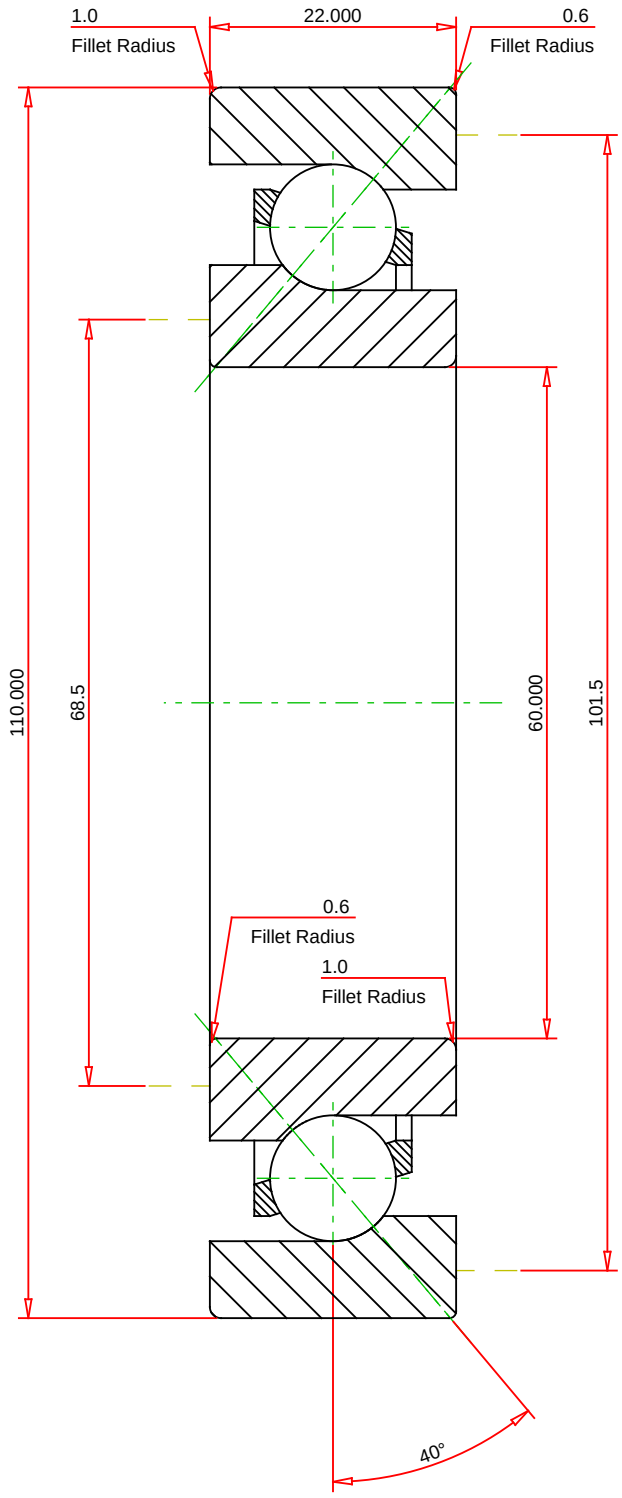
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.78 Kg 1.72 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]	1.00 mm 0.039 in
r - Outer Ring "To Clear" Radius[2]	1.00 mm 0.039 in
da - Inner Ring Backing Diameter	68.5 mm 2.697 in
Da - Outer Ring Backing Diameter	101.5 mm 3.996 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	15	
Bearing Weight	0.780	kg

TIMKEN®

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NORTH CANTON, OHIO USA

7212 BTN1

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(7200, 7300)

Dynamic Radial Rating	56000	N
Static Radial Rating	44500	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