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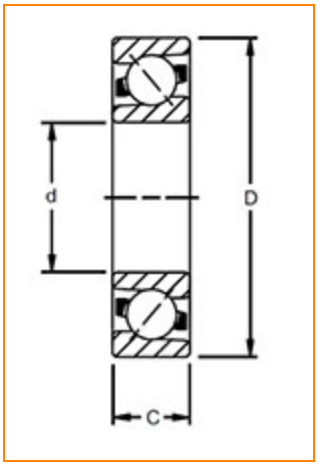
Part Number 7309 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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	45.00 mm 1.7717 in
D - Outer Diameter	100.00 mm 3.9370 in
Bearing Width	25.00 mm 0.9843 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	36800 N 8271 lbf
	55000 N

C1 ISO - Dynamic Radial Rating	55000 N 12362 lbf

Factors

Limiting Speed (Grease)	6600 rpm
Limiting Speed (Oil)	8900 rpm

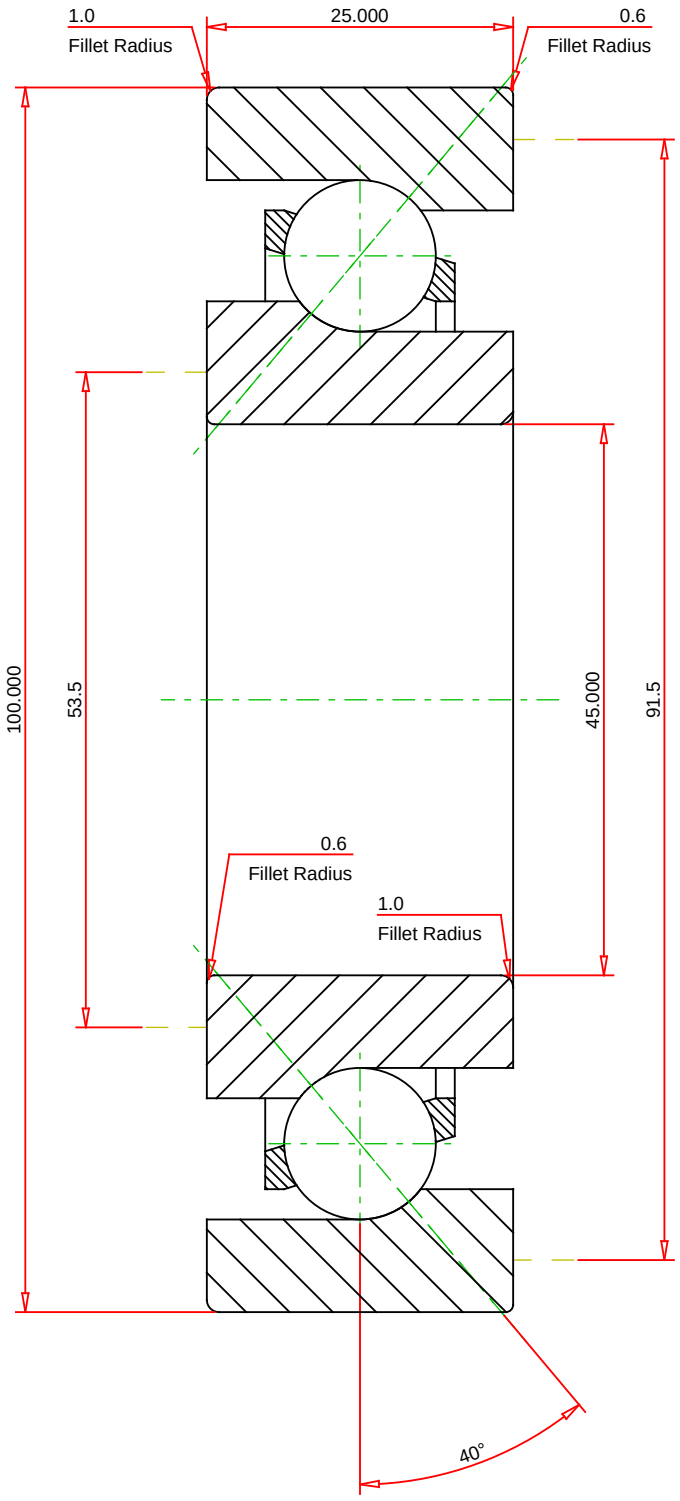
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.85 Kg 1.874 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	53.5 mm 2.106 in
Da - Outer Ring Backing Diameter	91.5 mm 3.602 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	0.850	kg

TIMKEN®

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NORTH CANTON, OHIO USA

7309 BTN1

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(7200, 7300)

Dynamic Radial Rating	55000	N
Static Radial Rating	36800	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