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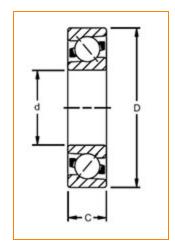
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Part Number 7309 BTN1/UL, Timken® Single Row Angular Contact Ball Bearings (7200,

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.





<u>Dimensions</u> | <u>Basic Load Ratings</u> | <u>Factors</u> | <u>Specifications</u> | <u>Abutment and Fillet Dimensions</u>

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		-
0 - Static Radial Rating	36800 N 8271 lbf	



C1 ISO - Dynamic Radial Rating 55000 N 12362 lbf

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

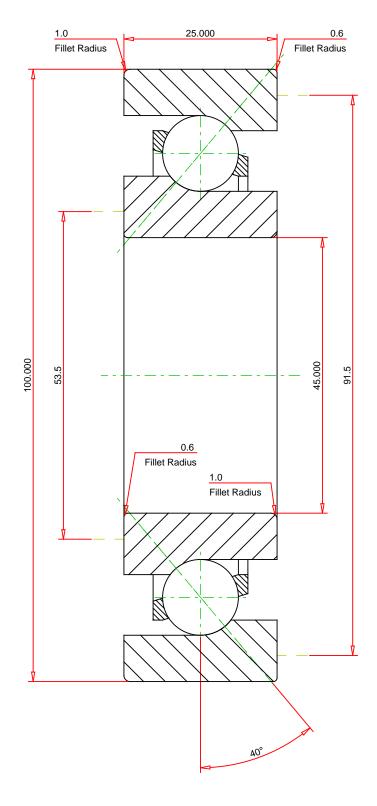
Abutment and Fillet Dimensions		
	R - Inner Ring "To Clear" Radius ¹	1.00 mm 0.039 in
	r - Outer Ring "To Clear" Radius ²	1.00 mm 0.039 in
	da - Inner Ring Backing Diameter	53.5 mm 2.106 in
	Da - Outer Ring Backing	91.5 mm



Diameter 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
Bearing Weight

11
0.850 kg

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7309 BTN1/UL Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

Dynamic Radial Rating Static Radial Rating 55000 36800

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FOR DISCUSSION ONLY

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.