

## **The Timken Company** 4500 Mt Pleasant St. NW N. Canton, OH 44720

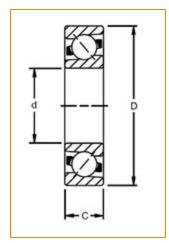
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Part Number 7307 BTN1/UL, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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	35.00 mm 1.378 in		
	D - Outer Diameter	80.00 mm 3.1496 in		
	Bearing Width	21.00 mm 0.8268 in		
	Contact Angle	40 °		

Basic Load Ratings		-
0 - Static Radial Rating	24200 N 5439 lbf	
		75 - 1118 AT A - A



C1 ISO - Dynamic Radial Rating 38400 N 8631 lbf

Factors	-
Limiting Speed (Grease) 8400 rpm	
Limiting Speed (Oil) 11000 rpm	

Specifications –				
Ball T	ype	STEEL		
Cage	Туре	Molded		
Cage	Material	Polyamide		
Beari	ng Weight	0.47 Kg 1.036 lb		
Desig	n Units	METRIC		
R - Ini	ner Ring "Touch" Radius	0.6		
r - Ou	ter Ring "Touch" Radius	0.6		
Featu	res	Open		

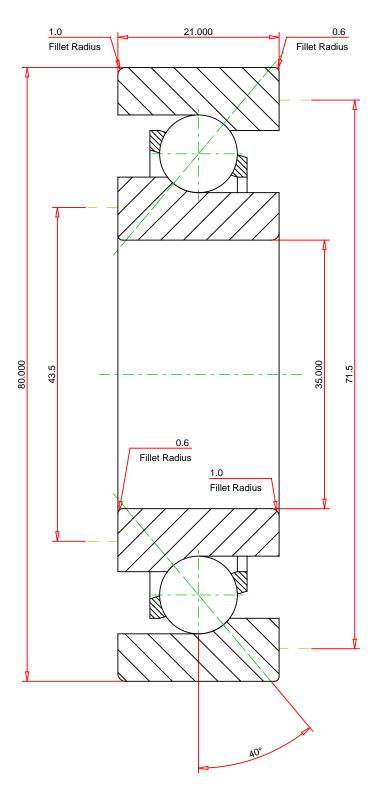
Abutment and Fillet Dimensions –				
R - II	nner Ring "To Clear" Radius <sup>1</sup>	1.00 mm 0.039 in		
r-O	uter Ring "To Clear" Radius <sup>2</sup>	1.00 mm 0.039 in		
da -	Inner Ring Backing Diameter	43.5 mm 1.713 in		
Da -	Outer Ring Backing	71.5 mm		



Diameter 2.815 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
0.470 kg

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

## 7307 BTN1/UL

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

Dynamic Radial Rating Static Radial Rating 38400 N 24200 N

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FOR DISCUSSION ONLY

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