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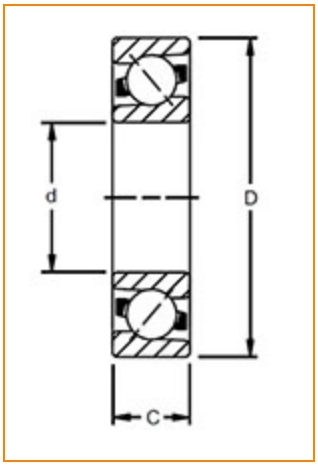
Part Number 7301 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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	12.00 mm 0.4724 in
D - Outer Diameter	37.00 mm 1.4567 in
Bearing Width	12.00 mm 0.4724 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	5000 N 1124 lbf
	10500 N

C1 ISO - Dynamic Radial Rating	10500 N 2360 lbf

Factors

Limiting Speed (Grease)	19000 rpm
Limiting Speed (Oil)	26000 rpm

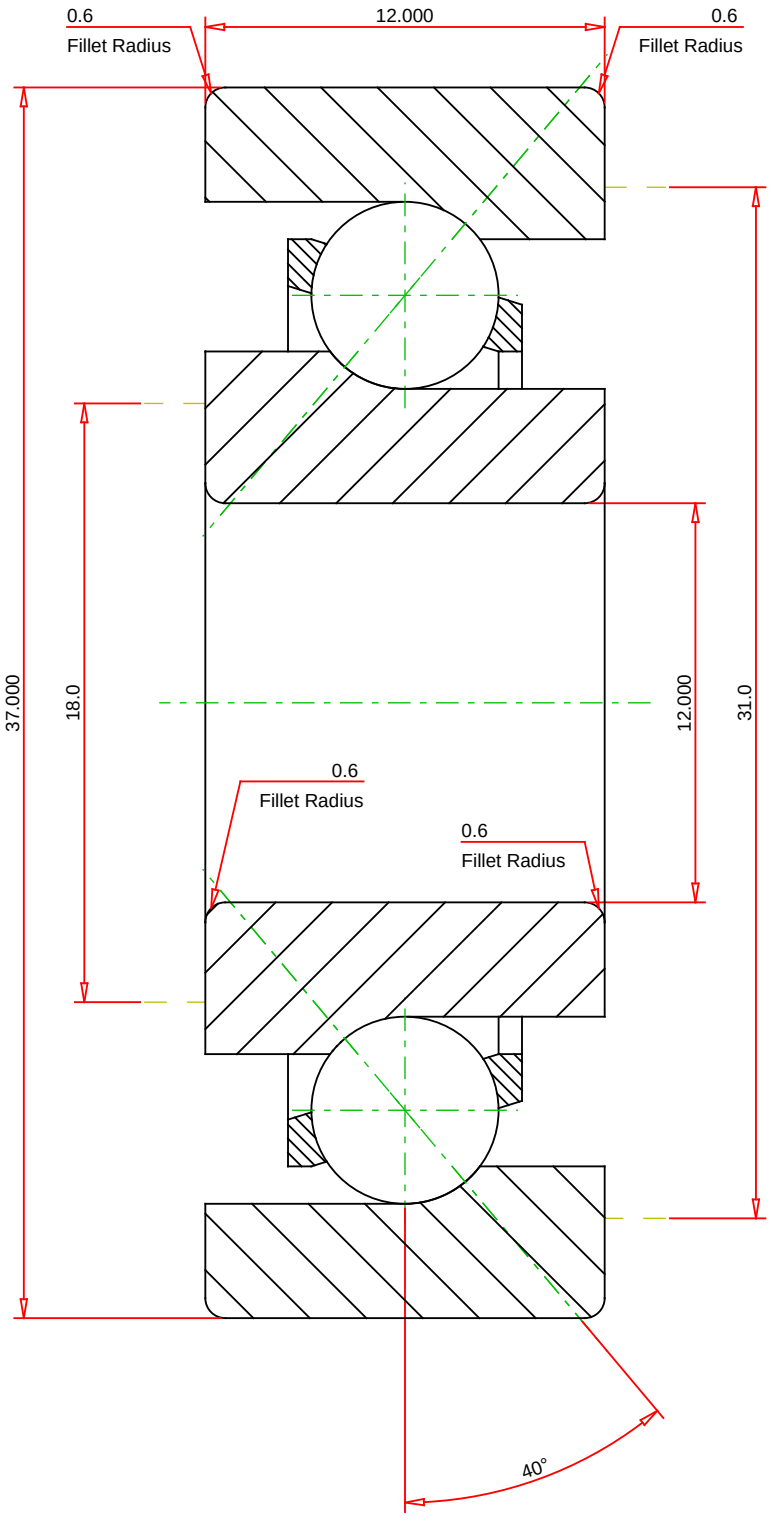
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.05 Kg 0.110 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]	0.60 mm 0.024 in
r - Outer Ring "To Clear" Radius[2]	0.60 mm 0.024 in
da - Inner Ring Backing Diameter	18.0 mm 0.709 in
Da - Outer Ring Backing Diameter	31.0 mm 1.220 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	8	
Bearing Weight	0.050	kg

TIMKEN®

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NORTH CANTON, OHIO USA

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(7200, 7300)

Dynamic Radial Rating	10500	N
Static Radial Rating	5000	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