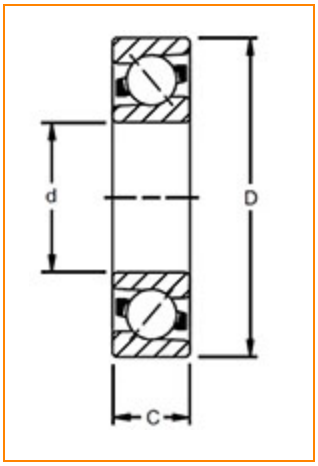
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 7311 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	55.00 mm 2.1654 in
D - Outer Diameter	120.00 mm 4.7244 in
Bearing Width	29.00 mm 1.1417 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	56500 N 12699 lbf
	78000 N

C1 ISO - Dynamic Radial Rating	79000 N 17756 lbf

Factors

Limiting Speed (Grease)	5500 rpm
Limiting Speed (Oil)	7300 rpm

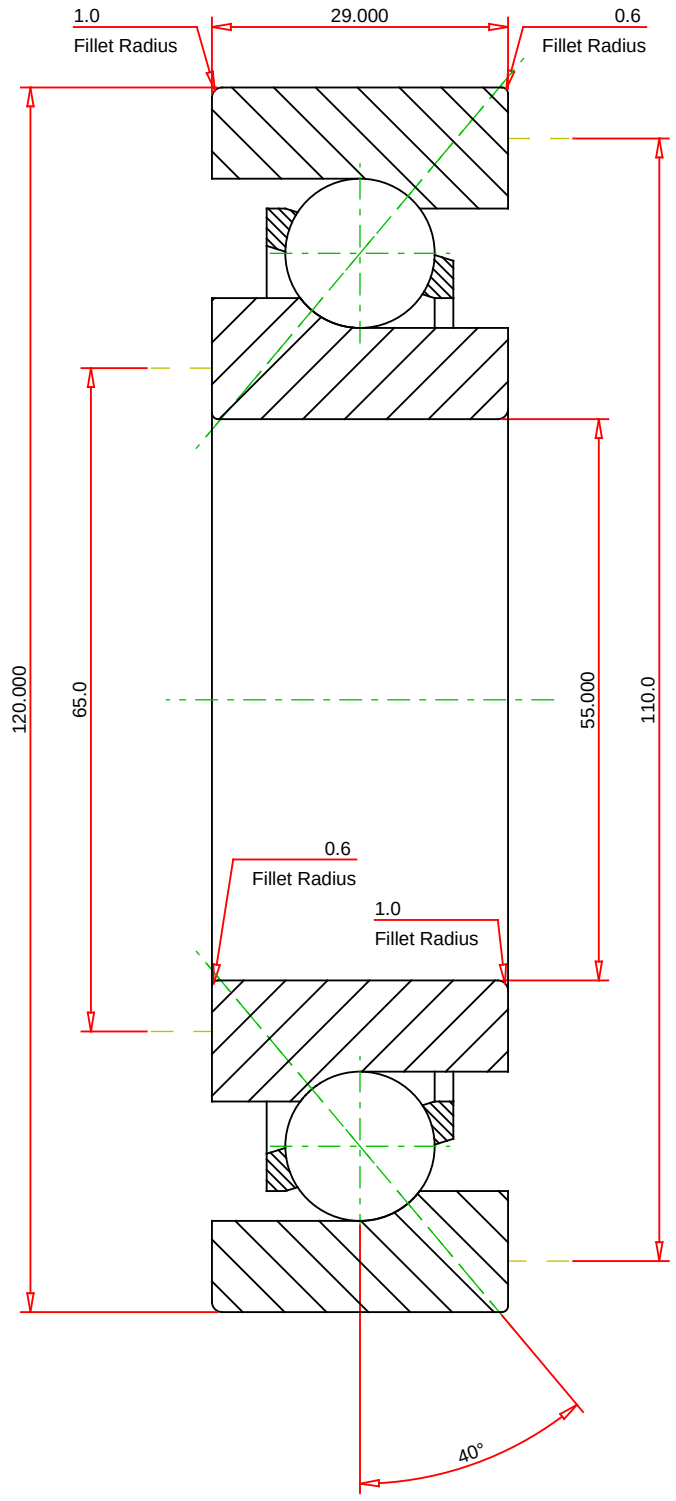
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	1.42 Kg 3.131 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	65.00 mm 2.559 in
Da - Outer Ring Backing Diameter	110.00 mm 4.3310 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	12	
Bearing Weight	1.420	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7311 BTN1

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

Dynamic Radial Rating	79000	N
Static Radial Rating	56500	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