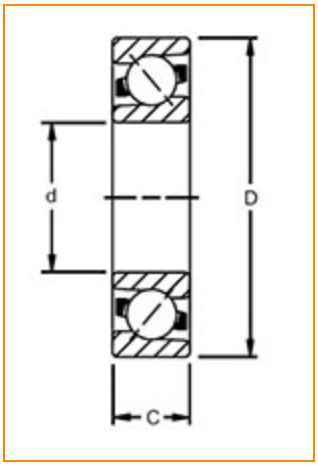
The Timken Company
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N. Canton, OH 44720
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E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 7202 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	15.00 mm 0.5906 in
D - Outer Diameter	35.00 mm 1.3780 in
Bearing Width	11.00 mm 0.4331 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	4300 N 966 lbf
	7800 N

C1 ISO - Dynamic Radial Rating	7900 N 1775 lbf

Factors

Limiting Speed (Grease)	18000 rpm
Limiting Speed (Oil)	25000 rpm

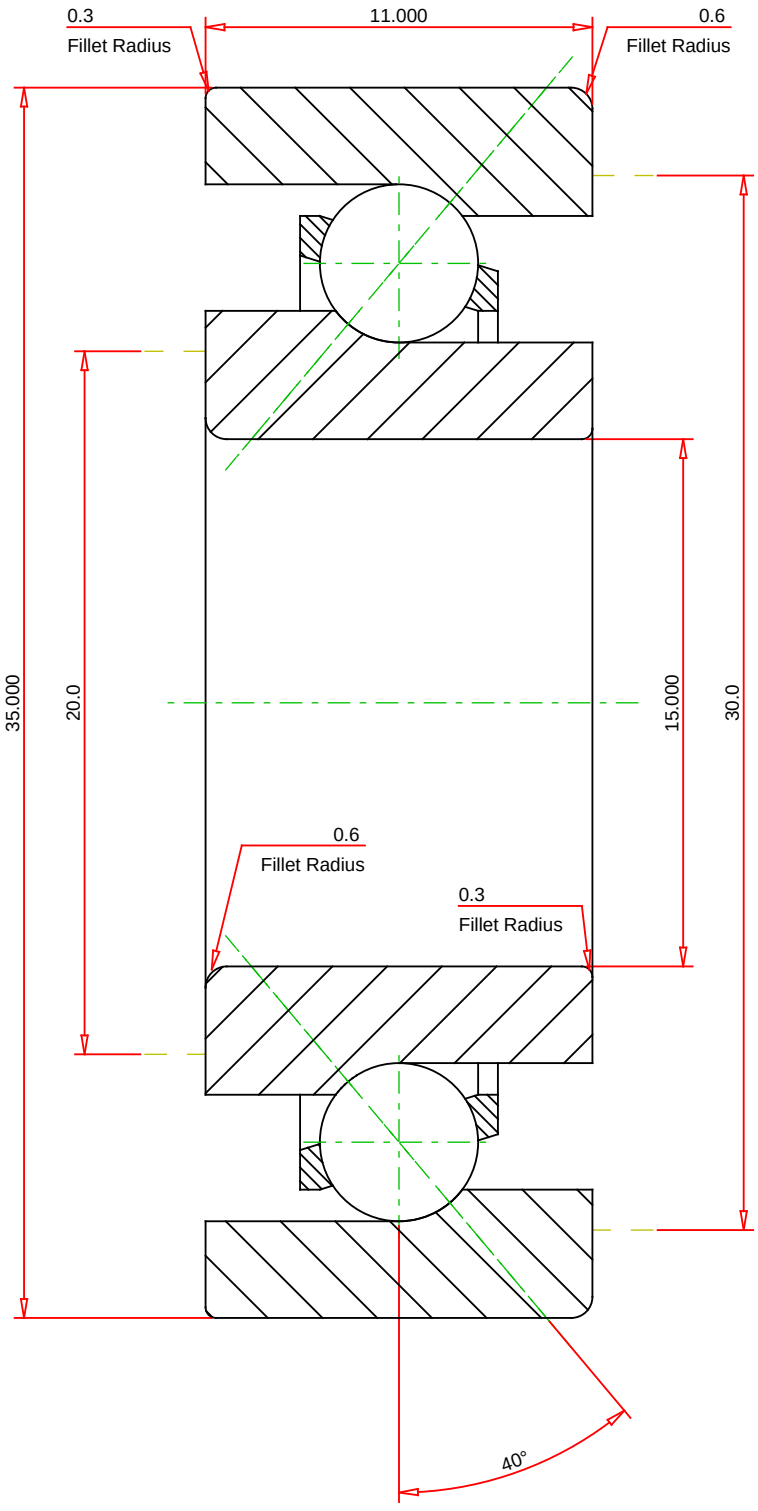
Specifications

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]	0.30 mm 0.012 in
r - Outer Ring "To Clear" Radius[2]	0.30 mm 0.012 in
da - Inner Ring Backing Diameter	20.0 mm 0.787 in
Da - Outer Ring Backing Diameter	30.00 mm 1.181 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	0.050	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7202 BTN1

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

Dynamic Radial Rating	7900	N
Static Radial Rating	4300	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