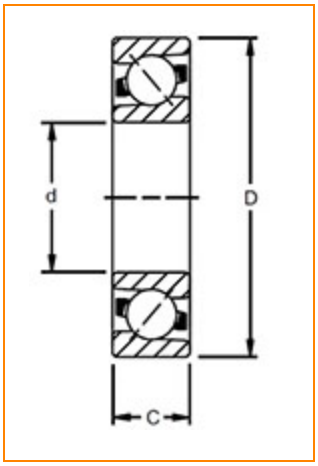
The Timken Company
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N. Canton, OH 44720
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E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 7210 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	50.00 mm 1.9685 in
D - Outer Diameter	90.00 mm 3.5433 in
Bearing Width	20.00 mm 0.7874 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	28600 N 6427 lbf
	27500 N

C1 ISO - Dynamic Radial Rating	37500 N 8427 lbf

Factors

Limiting Speed (Grease)	6700 rpm
Limiting Speed (Oil)	9000 rpm

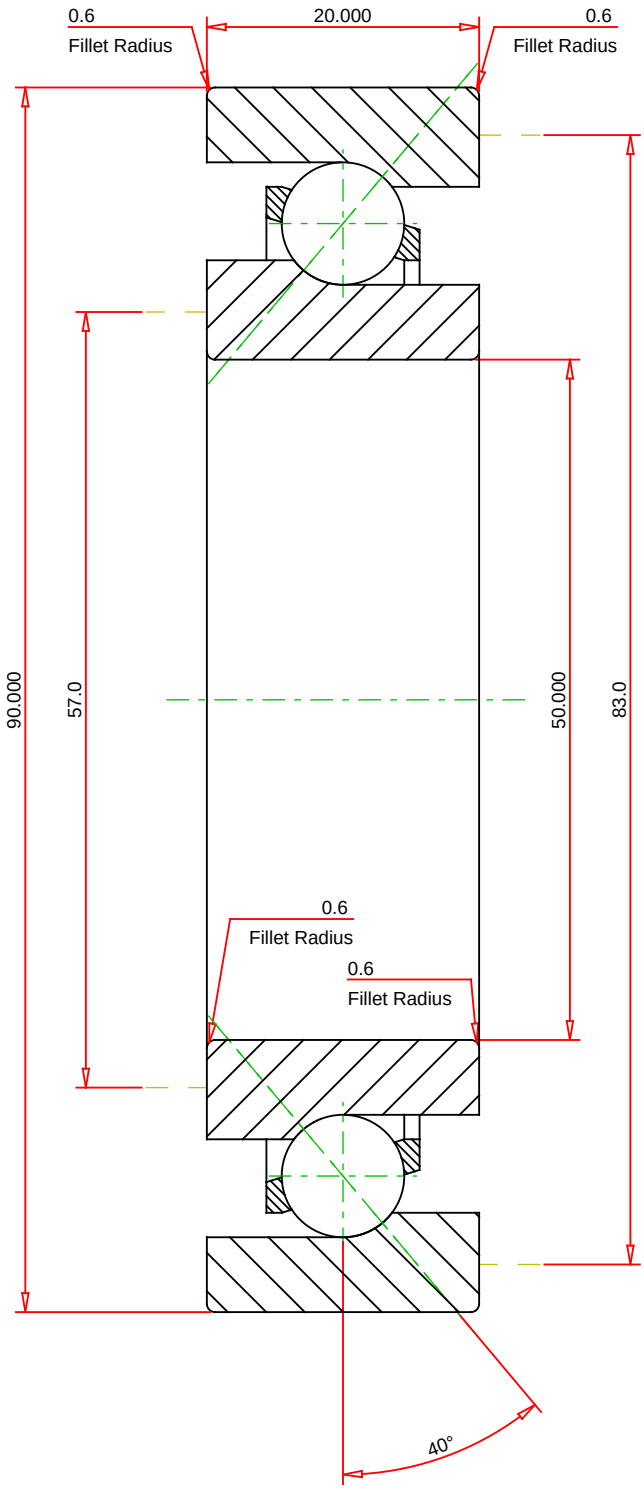
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.47 Kg 1.036 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	57.0 mm 2.244 in
Da - Outer Ring Backing Diameter	83.0 mm 3.268 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	15	
Bearing Weight	0.470	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7210 BTN1

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

Dynamic Radial Rating	37500	N
Static Radial Rating	28600	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