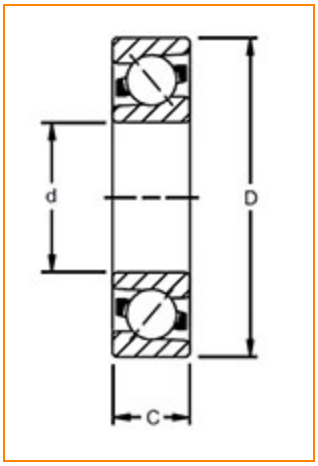
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 7207 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	35.00 mm 1.378 in
D - Outer Diameter	72.00 mm 2.8346 in
Bearing Width	17.00 mm 0.6693 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	18400 N 4135 lbf
	27100 N

C1 ISO - Dynamic Radial Rating	27100 N 6090 lbf

Factors

Limiting Speed (Grease)	9300 rpm
Limiting Speed (Oil)	12000 rpm

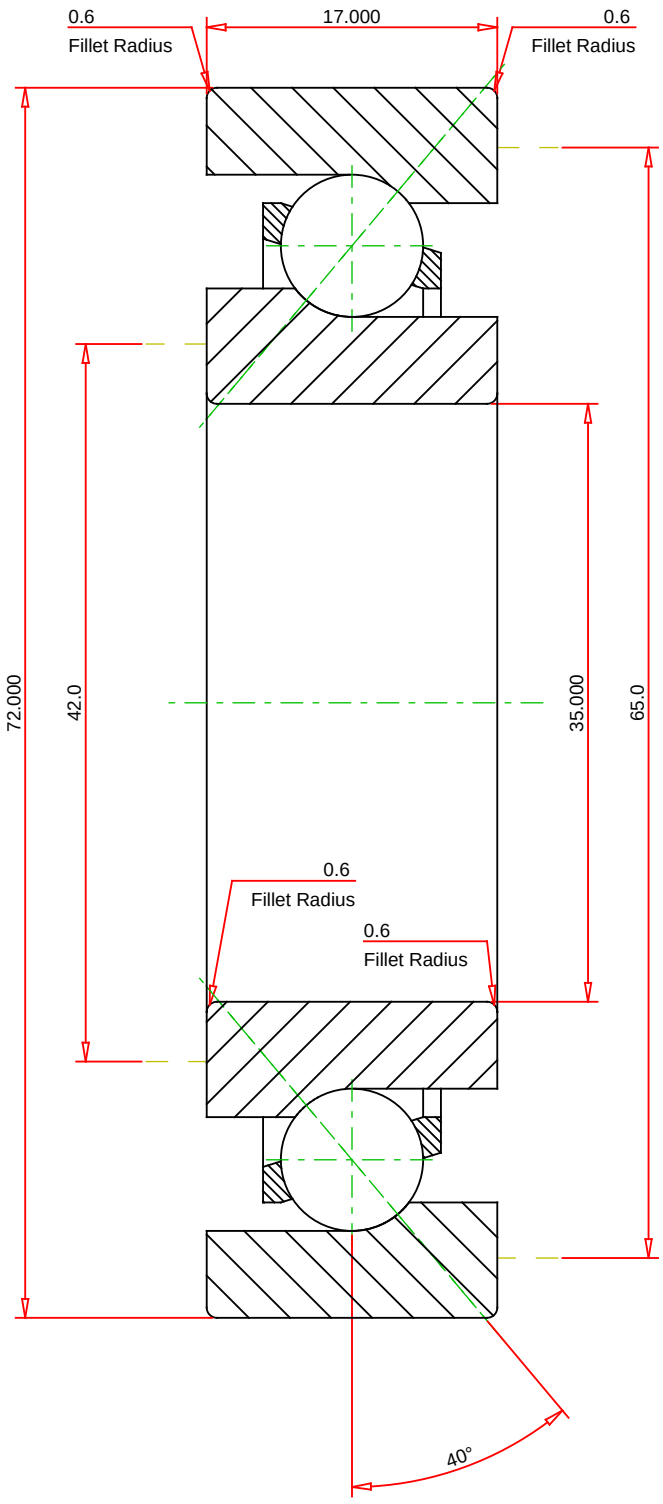
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.29 Kg 0.639 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	42.0 mm 1.654 in
Da - Outer Ring Backing Diameter	65.00 mm 2.5590 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	13	
Bearing Weight	0.290	kg

TIMKEN®

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NORTH CANTON, OHIO USA

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(7200, 7300)

Dynamic Radial Rating	27100	N
Static Radial Rating	18400	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