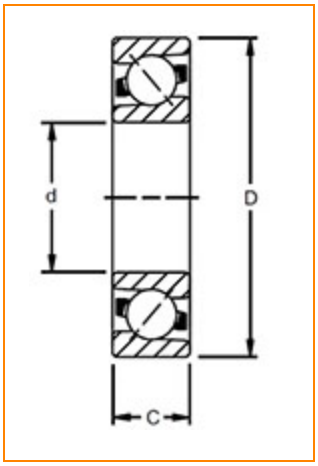
The Timken Company
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N. Canton, OH 44720
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E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 7205 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	25.00 mm 0.9843 in
D - Outer Diameter	52.00 mm 2.0472 in
Bearing Width	15.00 mm 0.5906 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	9400 N 2112 lbf
	14800 N

C1 ISO - Dynamic Radial Rating	14800 N 3326 lbf

Factors

Limiting Speed (Grease)	12000 rpm
Limiting Speed (Oil)	16000 rpm

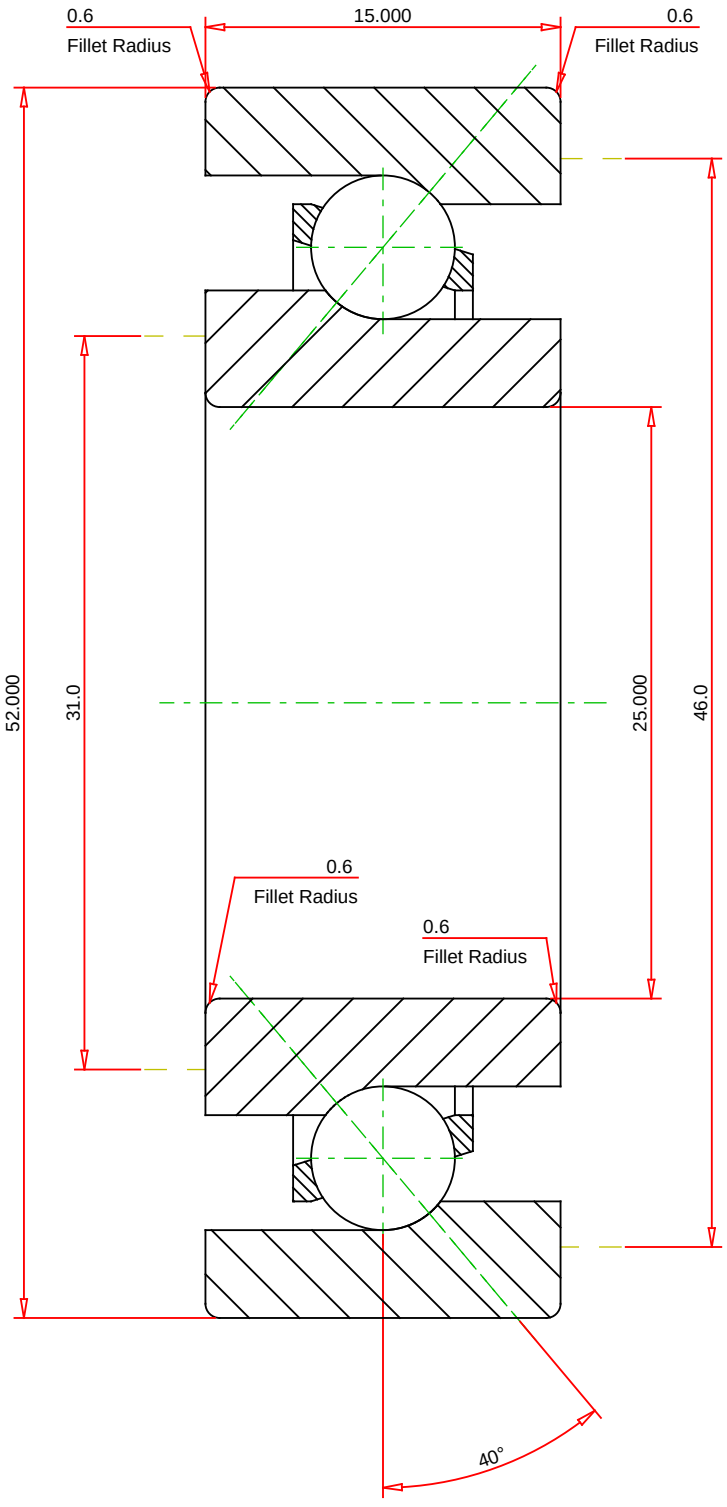
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.13 Kg 0.287 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	31.0 mm 1.220 in
Da - Outer Ring Backing Diameter	46.00 mm 1.8110 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	0.130	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7205 BTN1

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

Dynamic Radial Rating	14800	N
Static Radial Rating	9400	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