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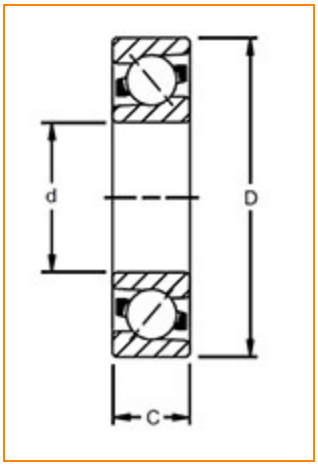
Part Number 7209 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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	45.00 mm 1.7717 in
D - Outer Diameter	85.00 mm 3.3465 in
Bearing Width	19.00 mm 0.7480 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	24400 N 5483 lbf
	24300 N

C1 ISO - Dynamic Radial Rating	34300 N 7708 lbf

Factors

Limiting Speed (Grease)	7400 rpm
Limiting Speed (Oil)	9900 rpm

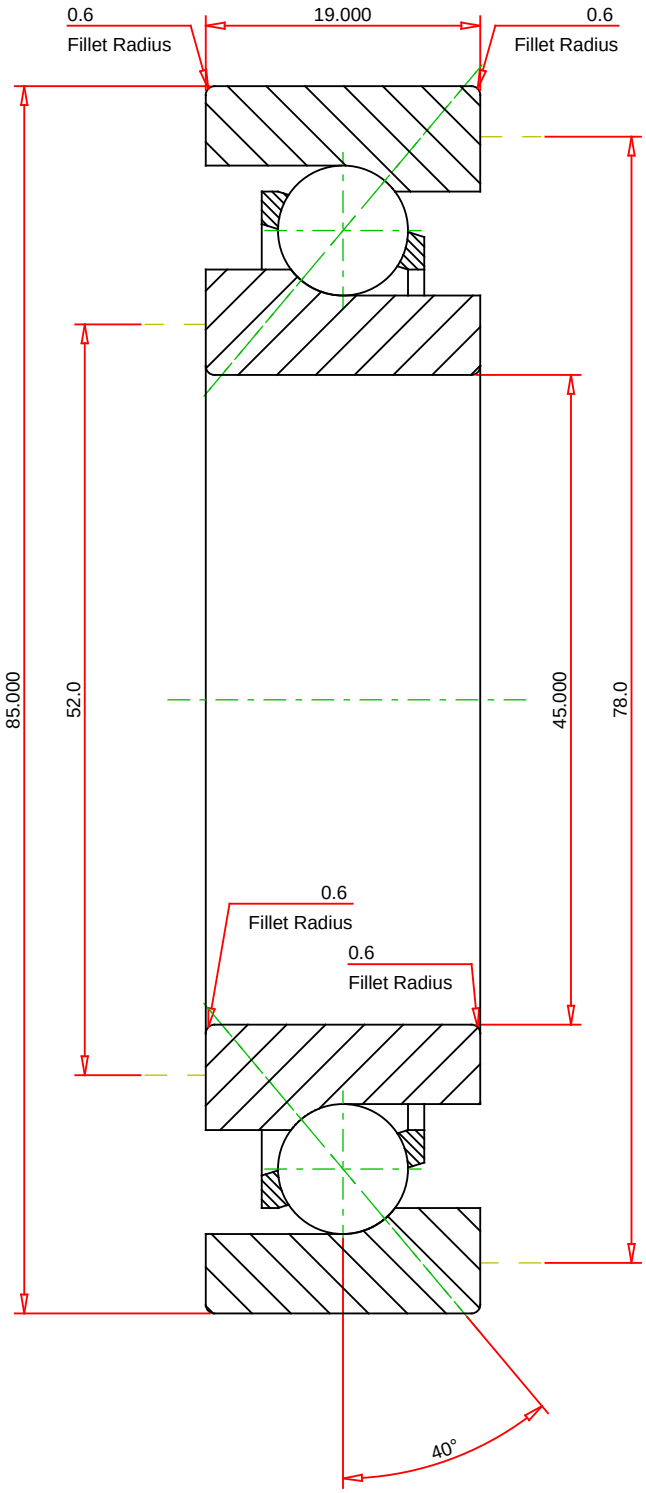
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.41 Kg 0.904 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	52.0 mm 2.047 in
Da - Outer Ring Backing Diameter	78.00 mm 3.0710 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	0.410	kg

TIMKEN®

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NORTH CANTON, OHIO USA

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(7200, 7300)

Dynamic Radial Rating	34300	N
Static Radial Rating	24400	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