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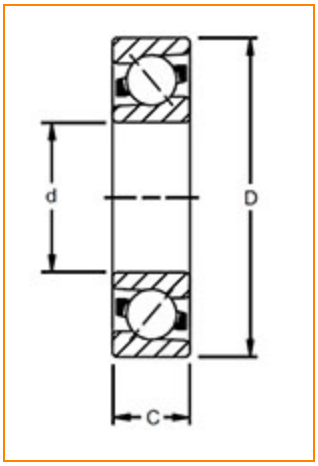
Part Number 7208 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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	40.00 mm 1.5748 in
D - Outer Diameter	80.00 mm 3.1496 in
Bearing Width	18.00 mm 0.7087 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	23800 N 5349 lbf
	24500 N

C1 ISO - Dynamic Radial Rating	34500 N 7753 lbf

Factors

Limiting Speed (Grease)	8300 rpm
Limiting Speed (Oil)	11000 rpm

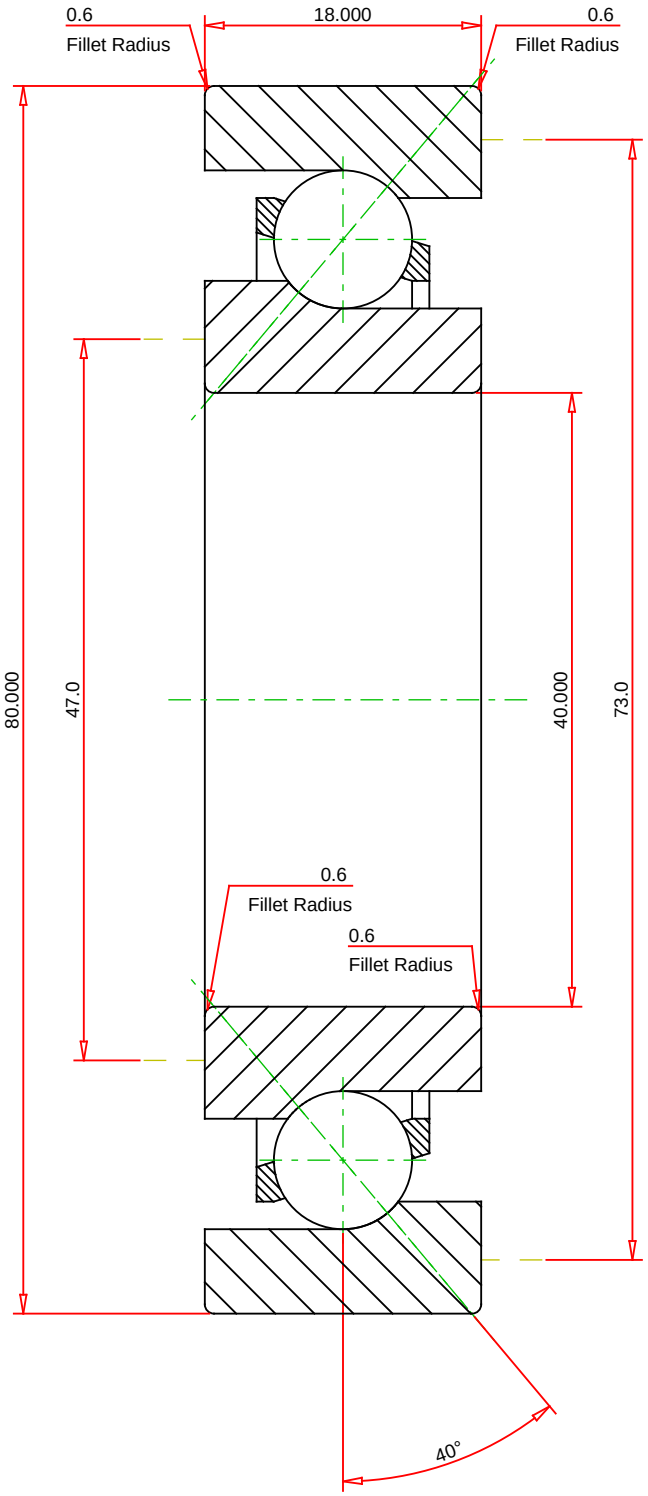
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.36 Kg 0.794 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	47.0 mm 1.850 in
Da - Outer Ring Backing Diameter	73.0 mm 2.874 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	0.360	kg

TIMKEN®

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NORTH CANTON, OHIO USA

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(7200, 7300)

Dynamic Radial Rating	34500	N
Static Radial Rating	23800	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