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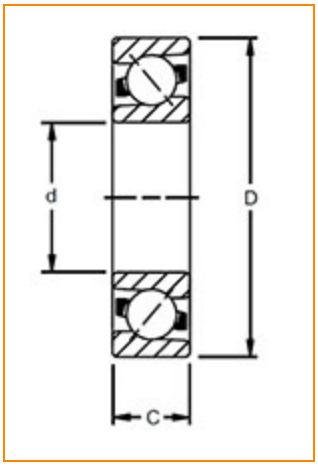
Part Number 7216 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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	80.00 mm 3.1496 in
D - Outer Diameter	140.00 mm 5.5118 in
Bearing Width	26.00 mm 1.0236 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	69500 N 15619 lbf
	80500 N

C1 ISO - Dynamic Radial Rating	80500 N 18091 lbf

Factors

Limiting Speed (Grease)	4300 rpm
Limiting Speed (Oil)	5700 rpm

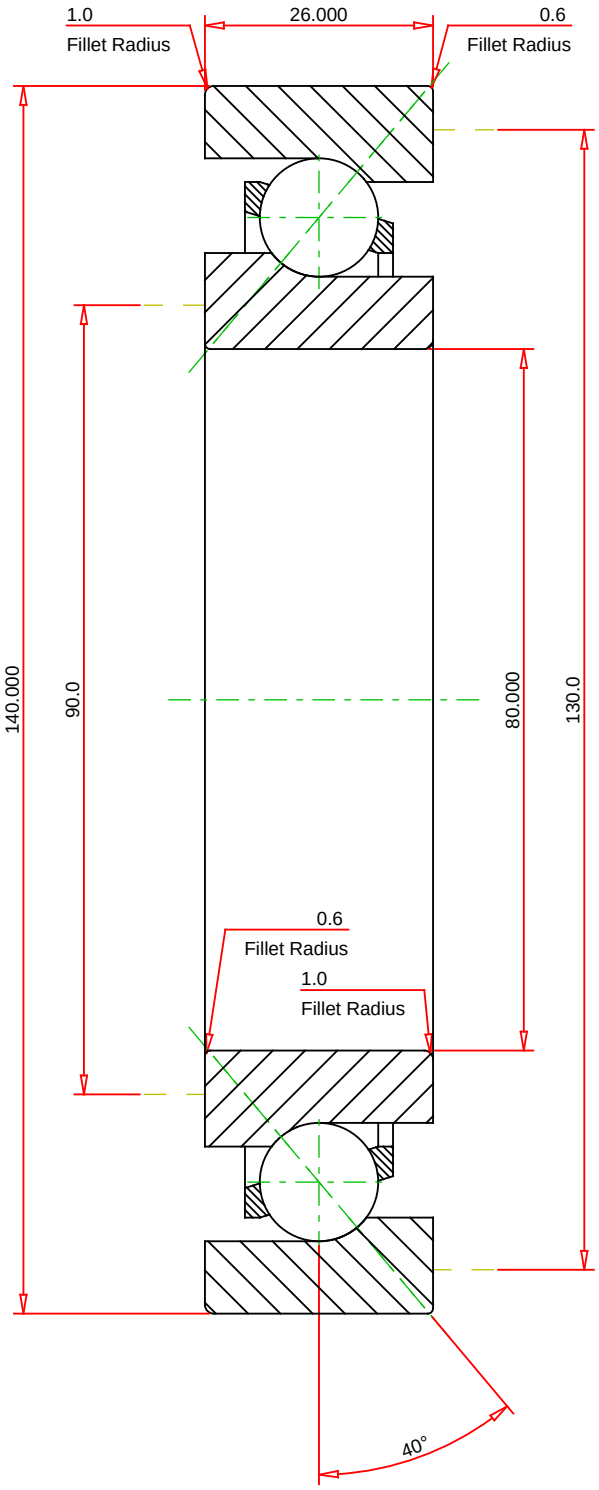
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	1.42 Kg 3.131 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]	1.00 mm 0.039 in
r - Outer Ring "To Clear" Radius[2]	1.00 mm 0.039 in
da - Inner Ring Backing Diameter	90.0 mm 3.543 in
Da - Outer Ring Backing Diameter	130.00 mm 5.1180 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	16	
Bearing Weight	1.420	kg

TIMKEN®

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NORTH CANTON, OHIO USA

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(7200, 7300)

Dynamic Radial Rating	80500	N
Static Radial Rating	69500	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