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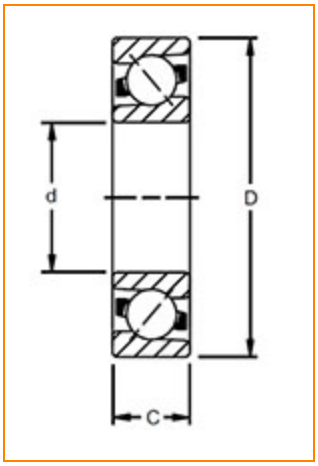
# Part Number 7310 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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** | 50.00 mm<br>1.9685 in |
| **D - Outer Diameter** | 110.00 mm<br>4.3307 in |
| **Bearing Width** | 27.00 mm<br>1.0630 in |
| **Contact Angle** | 40 ° |

## Basic Load Ratings

| | |
|---|---|
| **C0 - Static Radial Rating** | 44600 N<br>10024 lbf |
| | 63000 N |

| | |
|---|---|
| **C1 ISO - Dynamic Radial Rating** | 63000 N<br>14160 lbf |

## Factors

| | |
|---|---|
| **Limiting Speed (Grease)** | 6000 rpm |
| **Limiting Speed (Oil)** | 8100 rpm |

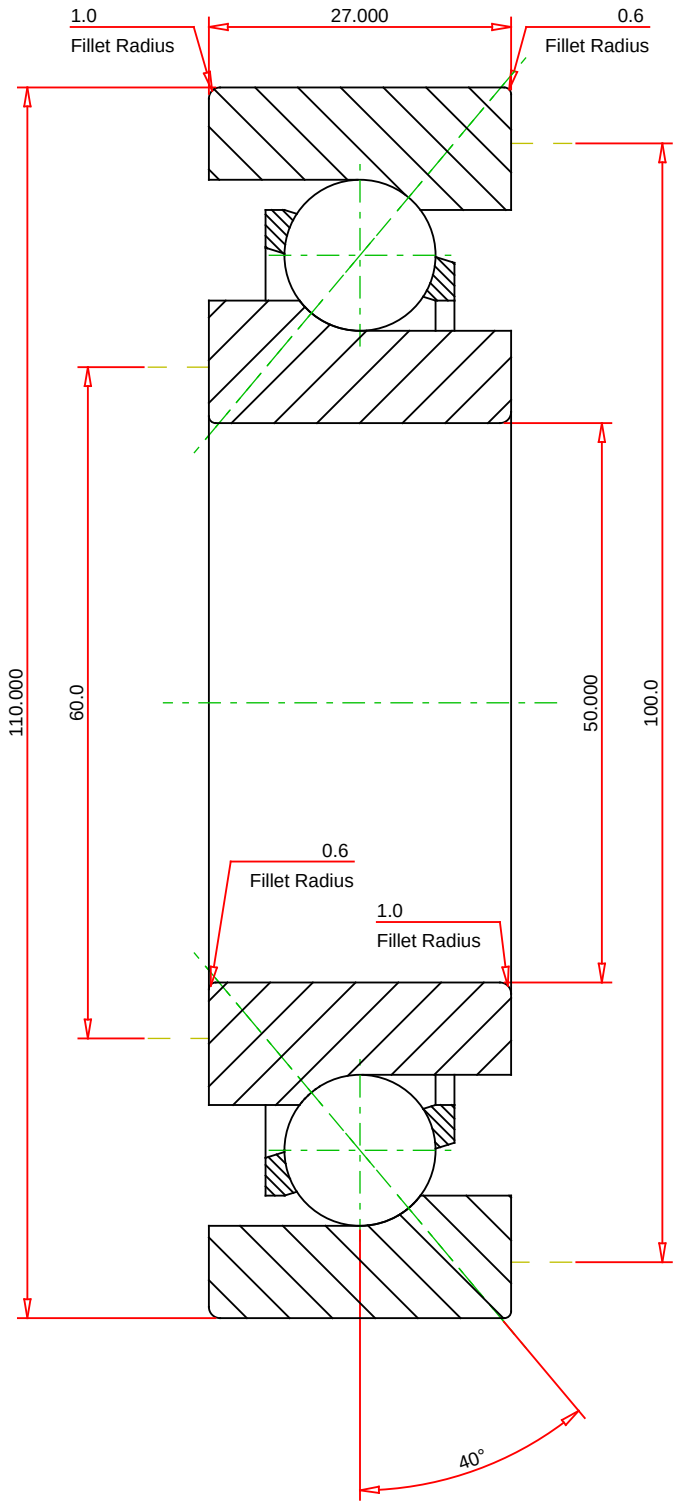
## Specifications

| | |
|---|---|
| **Ball Type** | STEEL |
| **Cage Type** | Molded |
| **Cage Material** | Polyamide |
| **Bearing Weight** | 1.11 Kg<br>2.447 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<br>0.039 in |
| **r - Outer Ring "To Clear" Radius[2]** | 1.00 mm<br>0.039 in |
| **da - Inner Ring Backing Diameter** | 60.0 mm<br>2.362 in |
| **Da - Outer Ring Backing Diameter** | 100.0 mm<br>3.937 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 | 12 | |
| Bearing Weight | 1.110 | kg |

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

# 7310 BTN1

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

| | | |
|---|---|---|
| Dynamic Radial Rating | 63000 | N |
| Static Radial Rating | 44600 | 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