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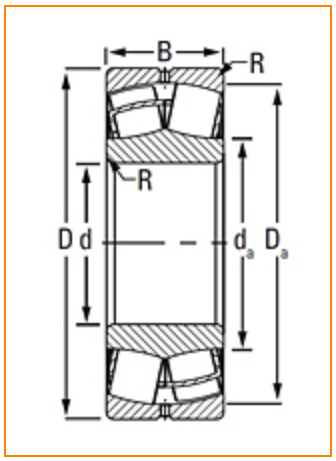
# Part Number 22308KEJW33C3, Spherical Roller Bearings - Steel Cage

Spherical bearings are designed to manage high radial loads even when misalignment, poor lubrication, contamination, extreme speeds or critical application stresses are present.




Specifications | Factors | Dimensions | Abutment and Fillet Dimensions | Basic Load Ratings

## Specifications

| | |
|---|---|
| **UPC Code** | 087796208773 |
| **Design Unit** | Metric |
| **d - Bore** | 40 mm |
| **Lubrication Type** | Standard Grease |
| **Bore_Taper** | 1/12 |
| **Cage Type** | EJ |
| **Cage Material** | Steel |
| **Superseded Part** | 22308KCJW33C3 |

## Factors

| | |
|---|---|
| **e - ISO Factor[1]** | 0.36 |
| **Y0 - ISO Factor[2]** | 1.83 |
| **Y1 - ISO Factor[3]** | 1.87 |
| **Y2 - ISO Factor[4]** | 2.79 |
| **Reference Thermal Speed Rating (Grease)** | 5600 rpm |
| **Reference Thermal Speed Rating (Oil)[5]** | 6700 rpm |
| **Cg - Geometry Factor[6]** | 0.0458 |

## Dimensions

| | |
|---|---|
| **D - Outer Diameter** | 90 mm<br>3.5433 in |
| **B' - Inner Ring Width** | 33 mm<br>1.2992 in |
| **B - Outer Ring Width** | 33 mm<br>1.2992 in |

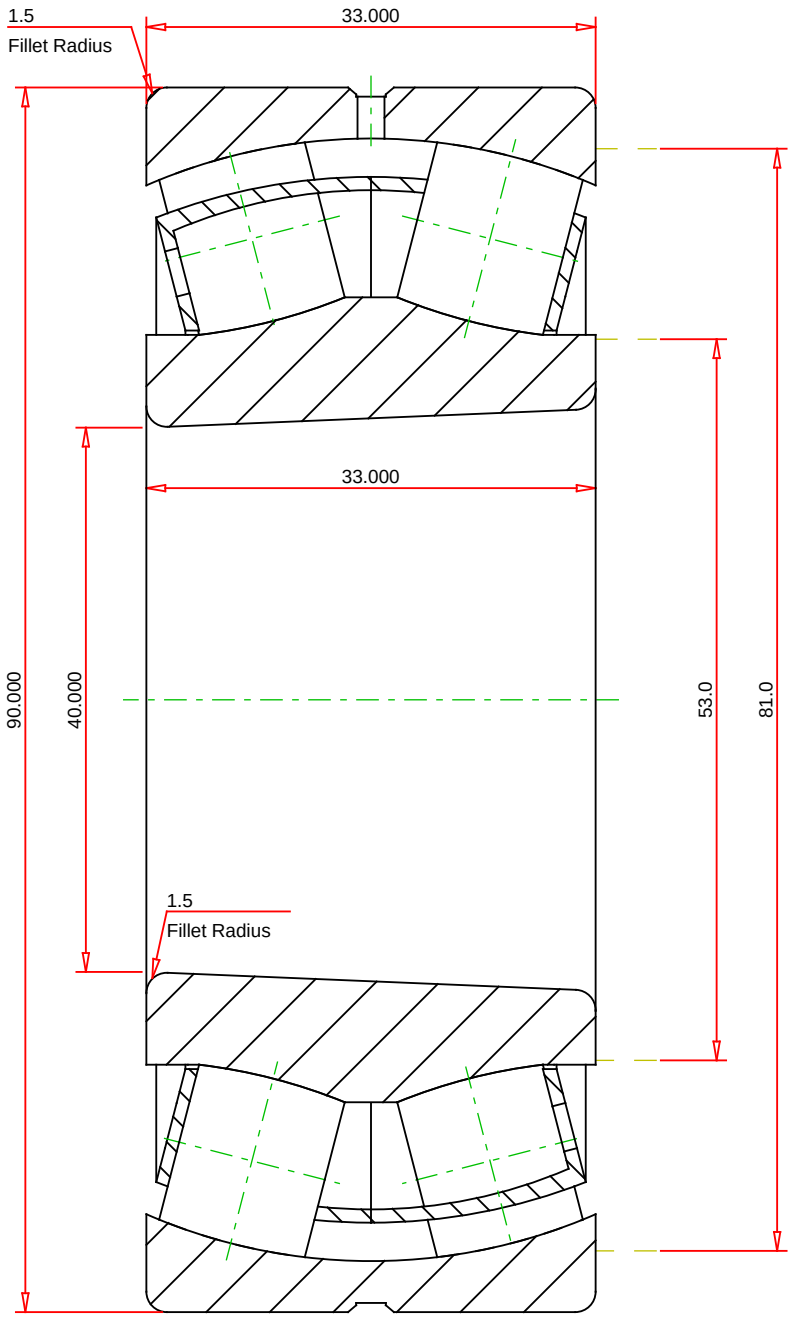
## Abutment and Fillet Dimensions

| | |
|---|---|
| **R - Inner Ring "To Clear" Radius[7]** | 1.5 mm<br>0.060 in |
| **r - Outer Ring "To Clear" Radius[8]** | 1.5 mm<br>0.06 in |
| **da - Inner Ring Backing Diameter** | 53.000 mm<br>2.100 in |
| **Da - Outer Ring Backing Diameter** | 81.00 mm<br>3.200 in |

## Basic Load Ratings

| | |
|---|---|
| **C0 - Static Radial Rating** | 155000 N<br>34900 lbf |
| **C1(2) - Dynamic Radial Rating (Two-Rows)** | 147000 N<br>33100 lbf |

[1] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.
[2] These factors apply for both inch and metric calculations. See engineering
[3] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.
[4] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.
[5] See thermal speed ratings in the engineering section.
[6] Geometry constant for Lubrication Life Adjustment Factor a3l.
[7] Maximum housing fillet radius that bearing corners will clear.
[8] These maximum fillet radii will be cleared by the bearing corners.




METRIC UNITS

| | | |
|---|---|---|
| Number of Rollers Per Row | 14 | |
| ISO Factor e | 0.36 | |
| ISO Factor Y0 | 1.83 | |
| ISO Factor Y1 | 1.87 | |
| ISO Factor Y2 | 2.79 | |
| Bearing Weight | | kg |
| Cage Type | EJ | |
| Cage Material | Steel | |
| Bore Taper | 1/12 | |

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22308KEJW33C3
SRB ASSEMBLY

| | | |
|---|---|---|
| Dynamic Radial Rating (Two Rows) | 147000 | N |
| Static Radial Rating | 155000 | N |



FOR DISCUSSION ONLY