



**The Timken Company**

4500 Mt Pleasant St. NW

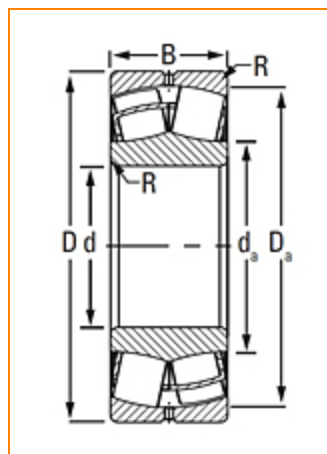
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## Part Number 23034EJW33C4, Spherical Roller Bearings - Steel Cage

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         | 087796356382    |
| Design Unit      | Metric          |
| d - Bore         | 170 mm          |
| Lubrication Type | Standard Grease |
| Cage Type        | EJ              |
| Cage Material    | Steel           |
| Superseded Part  | 23034CJW33C4    |

### Factors



e - ISO Factor<sup>1</sup>

0.22

|   |          |
|---|----------|
| <b>Y0 - ISO Factor<sup>2</sup></b>                      | 2.95     |
| <b>Y1 - ISO Factor<sup>3</sup></b>                      | 3.02     |
| <b>Y2 - ISO Factor<sup>4</sup></b>                      | 4.49     |
| <b>Reference Thermal Speed Rating (Grease)</b>          | 1800 rpm |
| <b>Reference Thermal Speed Rating (Oil)<sup>5</sup></b> | 2200 rpm |
| <b>Cg - Geometry Factor<sup>6</sup></b>                 | 0.0933   |

## Dimensions

|                              |                      |
|------------------------------|----------------------|
| <b>D - Outer Diameter</b>    | 260 mm<br>10.2362 in |
| <b>B' - Inner Ring Width</b> | 67 mm<br>2.6378 in   |
| <b>B - Outer Ring Width</b>  | 67 mm<br>2.6378 in   |

## Abutment and Fillet Dimensions

|   |                         |
|---|-------------------------|
| <b>R - Inner Ring "To Clear" Radius<sup>7</sup></b> | 2 mm<br>0.080 in        |
| <b>r - Outer Ring "To Clear" Radius<sup>8</sup></b> | 2 mm<br>0.080 in        |
| <b>da - Inner Ring Backing Diameter</b>             | 192.000 mm<br>7.6000 in |
| <b>Da - Outer Ring Backing Diameter</b>             | 242 mm<br>9.500 in      |

## Basic Load Ratings

|   |                         |
|---|-------------------------|
| <b>C0 - Static Radial Rating</b>                    | 1250000 N<br>282000 lbf |
| <b>C1(2) - Dynamic Radial Rating<br/>(Two-Rows)</b> | 858000 N<br>193000 lbf  |

<sup>1</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>2</sup> These factors apply for both inch and metric calculations. See engineering

<sup>3</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

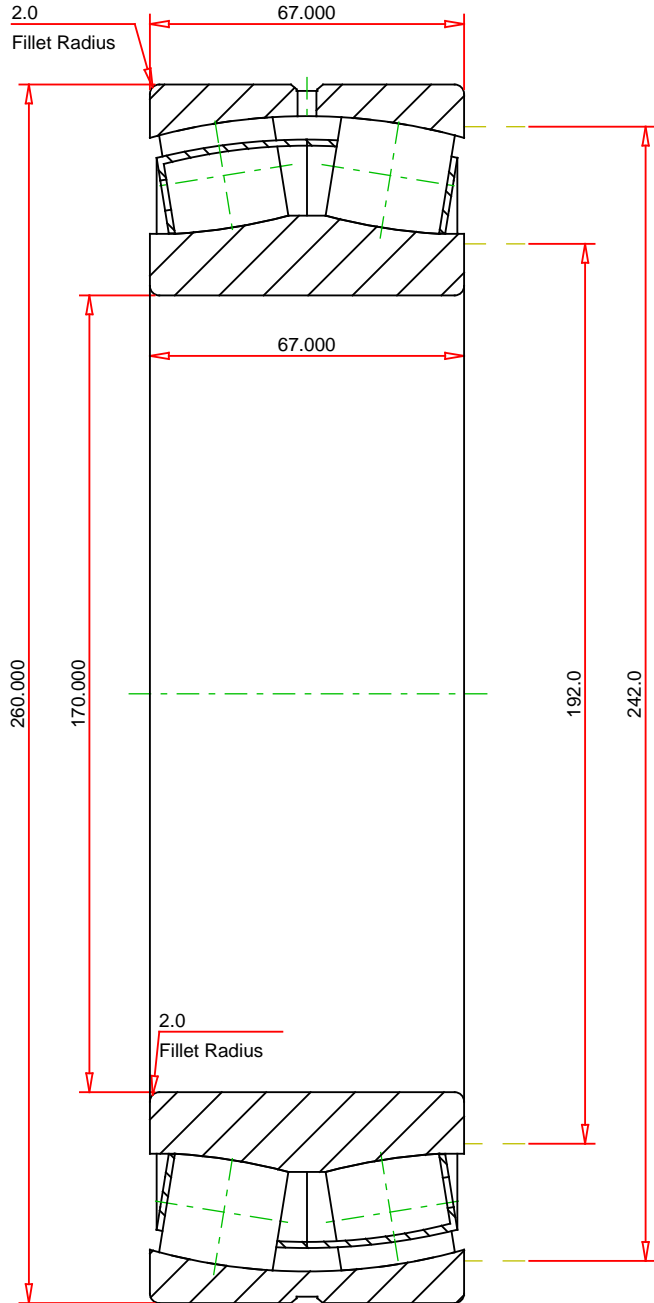
<sup>4</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>5</sup> See thermal speed ratings in the engineering section.

<sup>6</sup> Geometry constant for Lubrication Life Adjustment Factor  $a_3$ .

<sup>7</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>8</sup> These maximum fillet radii will be cleared by the bearing corners.



METRIC UNITS

|                           |       |
|---------------------------|-------|
| Number of Rollers Per Row | 26    |
| ISO Factor e              | 0.22  |
| ISO Factor Y0             | 2.95  |
| ISO Factor Y1             | 3.02  |
| ISO Factor Y2             | 4.49  |
| Bearing Weight            | kg    |
| Cage Type                 | EJ    |
| Cage Material             | Steel |



THE TIMKEN COMPANY  
NORTH CANTON, OHIO USA

23034EJW33C4  
SRB ASSEMBLY

|                                  |         |   |
|----------------------------------|---------|---|
| Dynamic Radial Rating (Two Rows) | 858000  | N |
| Static Radial Rating             | 1250000 | 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