


**The Timken Company**

4500 Mt Pleasant St. NW

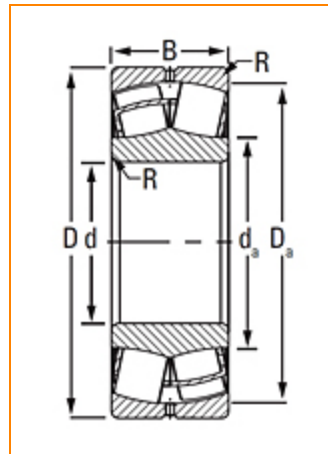
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## Part Number 21308EJW33, Spherical Roller Bearings - Steel Cage

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



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### Specifications

<b>UPC Code</b>	087796022553
<b>Design Unit</b>	Metric
<b>d - Bore</b>	40 mm
<b>Lubrication Type</b>	Standard Grease
<b>Cage Type</b>	EJ
<b>Cage Material</b>	Steel
<b>Superseded Part</b>	21308CJW33

### Factors



<b>e - ISO Factor<sup>1</sup></b>	0.26
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<b>Y0 - ISO Factor<sup>2</sup></b>	2.58
<b>Y1 - ISO Factor<sup>3</sup></b>	2.64
<b>Y2 - ISO Factor<sup>4</sup></b>	3.93
<b>Reference Thermal Speed Rating (Grease)</b>	5800 rpm
<b>Reference Thermal Speed Rating (Oil)<sup>5</sup></b>	7100 rpm
<b>Cg - Geometry Factor<sup>6</sup></b>	0.0482

## Dimensions

<b>D - Outer Diameter</b>	90 mm 3.5433 in
<b>B' - Inner Ring Width</b>	23 mm 0.9055 in
<b>B - Outer Ring Width</b>	23 mm 0.9055 in

## Abutment and Fillet Dimensions

<b>R - Inner Ring "To Clear" Radius<sup>7</sup></b>	1.5 mm 0.060 in
<b>r - Outer Ring "To Clear" Radius<sup>8</sup></b>	1.5 mm 0.06 in
<b>da - Inner Ring Backing Diameter</b>	54.000 mm 2.100 in
<b>Da - Outer Ring Backing Diameter</b>	80.000 mm 3.200 in

## Basic Load Ratings

<b>C0 - Static Radial Rating</b>	113000 N 25400 lbf
<b>C1(2) - Dynamic Radial Rating (Two-Rows)</b>	102000 N 22900 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.

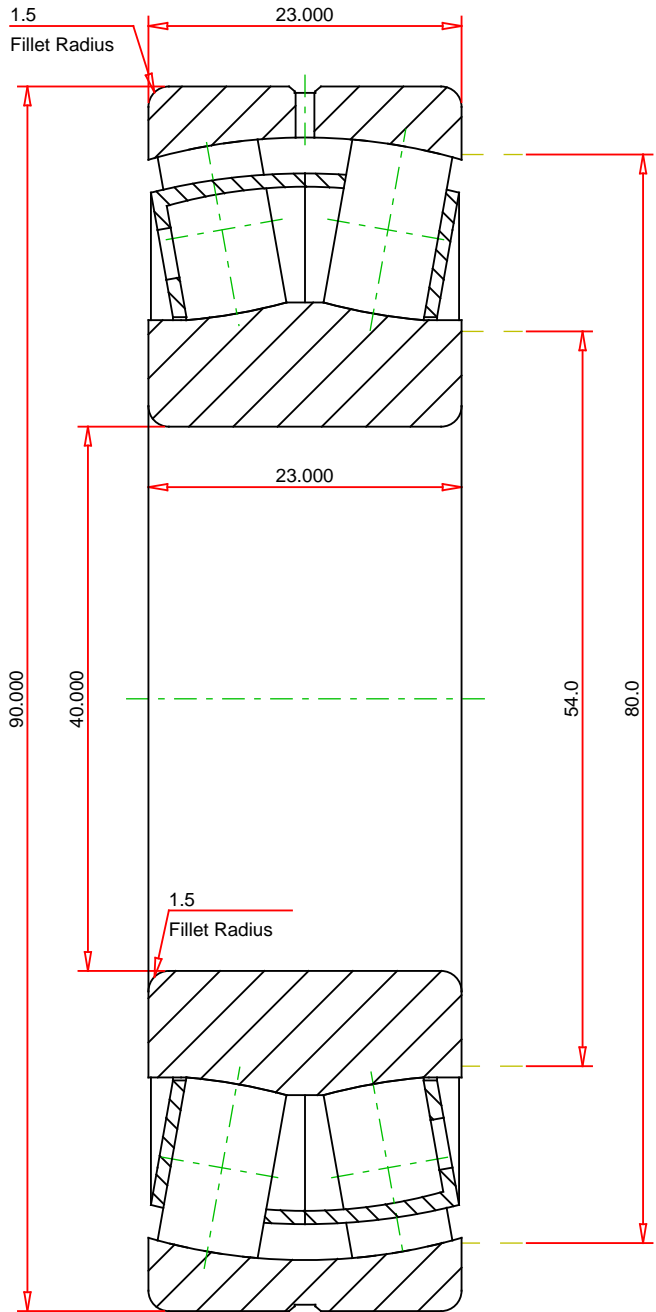
<sup>4</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<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	15
ISO Factor e	0.26
ISO Factor Y0	2.58
ISO Factor Y1	2.64
ISO Factor Y2	3.93
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

**TIMKEN**®

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**THE TIMKEN COMPANY**  
NORTH CANTON, OHIO USA

<b>21308EJW33</b> SRB ASSEMBLY		
Dynamic Radial Rating (Two Rows)	102000	N
Static Radial Rating	113000	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**