


**The Timken Company**

4500 Mt Pleasant St. NW

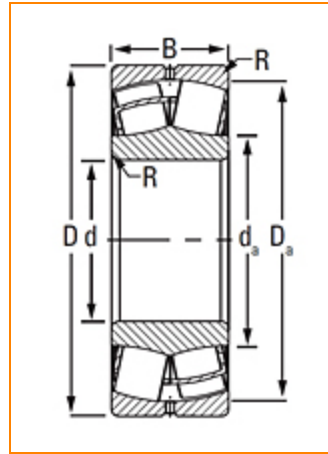
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## Part Number 22212EJW33C3, Spherical Roller Bearings - Steel Cage

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

<b>UPC Code</b>	087796023048
<b>Design Unit</b>	Metric
<b>d - Bore</b>	60 mm
<b>Lubrication Type</b>	Standard Grease
<b>Cage Type</b>	EJ
<b>Cage Material</b>	Steel
<b>Superseded Part</b>	22212CJW33C3

### Factors


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

0.24

<b>Y0 - ISO Factor<sup>2</sup></b>	2.78
<b>Y1 - ISO Factor<sup>3</sup></b>	2.84
<b>Y2 - ISO Factor<sup>4</sup></b>	4.23
<b>Reference Thermal Speed Rating (Grease)</b>	4400 rpm
<b>Reference Thermal Speed Rating (Oil)<sup>5</sup></b>	5500 rpm
<b>Cg - Geometry Factor<sup>6</sup></b>	0.0551

## Dimensions

<b>D - Outer Diameter</b>	110 mm 4.3307 in
<b>B' - Inner Ring Width</b>	28 mm 1.1024 in
<b>B - Outer Ring Width</b>	28 mm 1.1024 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>	72 mm 2.800 in
<b>Da - Outer Ring Backing Diameter</b>	100.0 mm 4.000 in

## Basic Load Ratings

<b>C0 - Static Radial Rating</b>	174000 N 39000 lbf
<b>C1(2) - Dynamic Radial Rating (Two-Rows)</b>	169000 N 38100 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.

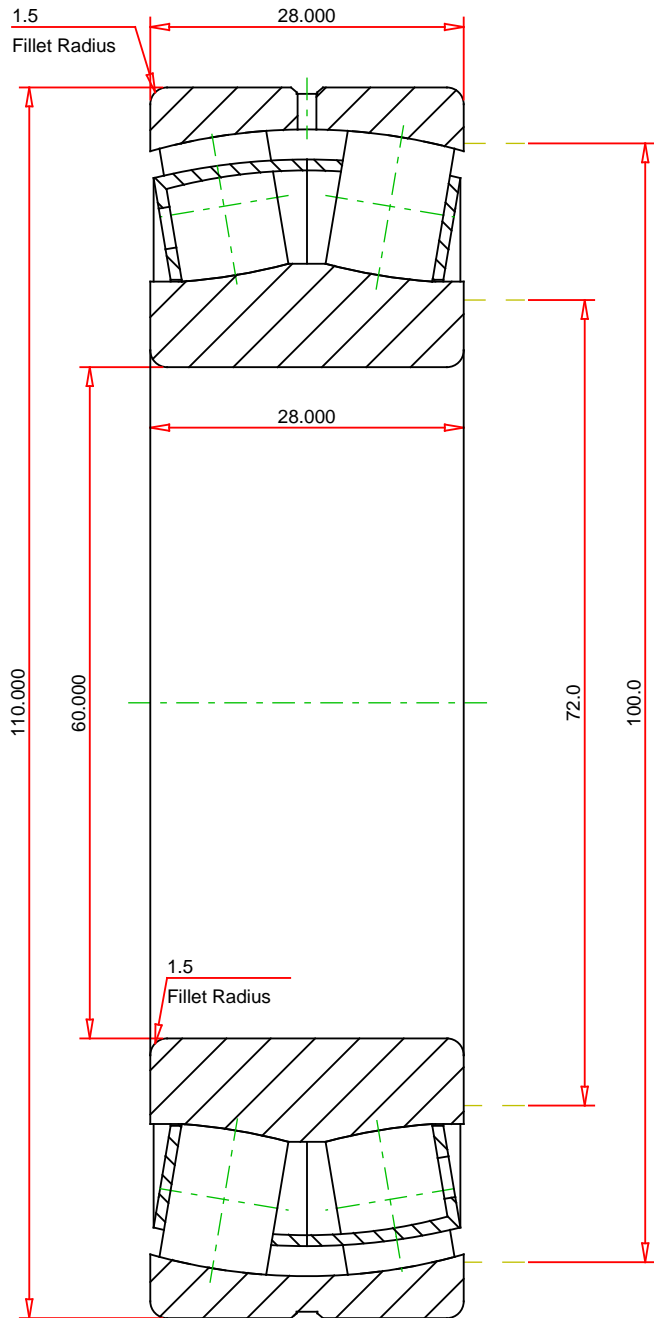
<sup>4</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<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	17
ISO Factor e	0.24
ISO Factor Y0	2.78
ISO Factor Y1	2.84
ISO Factor Y2	4.23
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel



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

22212EJW33C3 SRB ASSEMBLY		
Dynamic Radial Rating (Two Rows)	169000	N
Static Radial Rating	174000	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