


The Timken Company

4500 Mt Pleasant St. NW

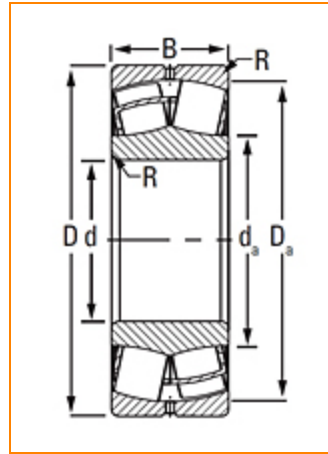
N. Canton, OH 44720

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Part Number 23218EJW33C3, 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	087796204768
Design Unit	Metric
d - Bore	90 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	23218CJW33C3

Factors


e - ISO Factor¹

0.3

Y0 - ISO Factor²	2.23
Y1 - ISO Factor³	2.28
Y2 - ISO Factor⁴	3.4
Reference Thermal Speed Rating (Grease)	2600 rpm
Reference Thermal Speed Rating (Oil)⁵	3000 rpm
Cg - Geometry Factor⁶	0.0647

Dimensions

D - Outer Diameter	160 mm 6.2992 in
B' - Inner Ring Width	52.4 mm 2.063 in
B - Outer Ring Width	52.400 mm 2.0630 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	2 mm 0.080 in
r - Outer Ring "To Clear" Radius⁸	2 mm 0.08 in
da - Inner Ring Backing Diameter	107 mm 4.2000 in
Da - Outer Ring Backing Diameter	147.000 mm 5.800 in

Basic Load Ratings

C0 - Static Radial Rating	521000 N 117000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	436000 N 98000 lbf
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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.

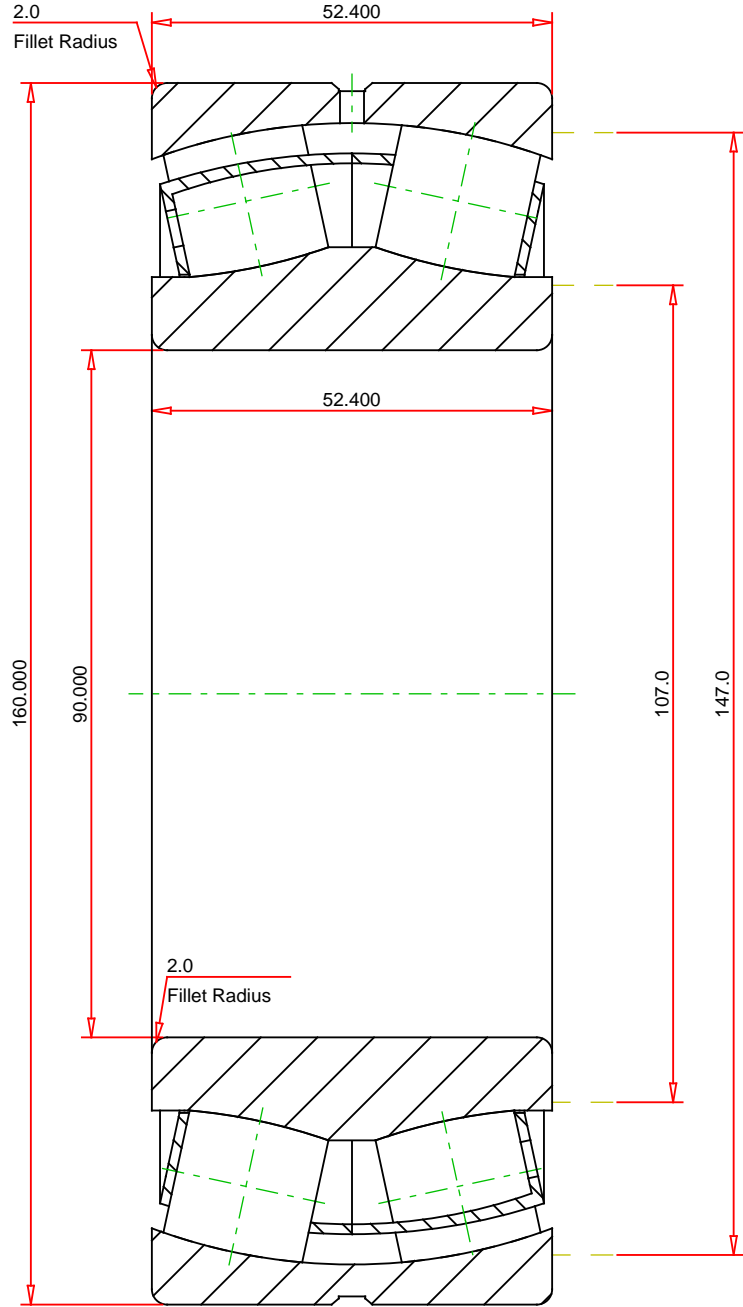
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor a_3 .

⁷ Maximum housing fillet radius that bearing corners will clear.

⁸ These maximum fillet radii will be cleared by the bearing corners.



METRIC UNITS

<div>Number of Rollers Per Row19</div> <div>ISO Factor e0.30</div> <div>ISO Factor Y02.23</div> <div>ISO Factor Y12.28</div> <div>ISO Factor Y23.40</div> <div>Bearing Weight</div> <div>Cage TypeEJ</div> <div>Cage MaterialSteel</div>		<div>TIMKEN®</div> <div>THE TIMKEN COMPANY</div> <div>NORTH CANTON, OHIO USA</div>	<div>23218EJW33C3</div> <div>SRB ASSEMBLY</div> <div>Dynamic Radial Rating (Two Rows)436000N</div> <div>Static Radial Rating521000N</div>
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