


The Timken Company

4500 Mt Pleasant St. NW

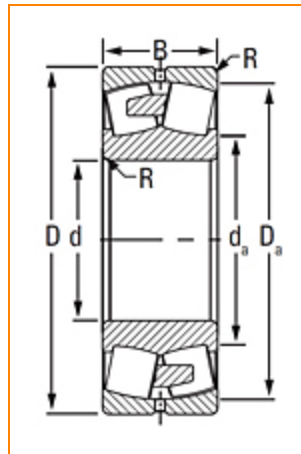
N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 23936EMW33C3, Spherical Roller Bearings - Brass 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

Design Unit	Metric
d - Bore	180 mm
Cage Type	EM
Cage Material	Brass
Superseded Part	23936YMW33C3

Dimensions

D - Outer Diameter	250 mm 9.8425 in
 - Inner Ring Width	52 mm 2.0472 in

B - Outer Ring Width

52 mm
2.0472 in

Abutment and Fillet Dimensions**R - Inner Ring "To Clear" Radius¹**

2 mm
0.080 in

r - Outer Ring "To Clear" Radius²

2 mm
0.08 in

da - Inner Ring Backing Diameter

197 mm
7.8000 in

Da - Outer Ring Backing Diameter

235 mm
9.3000 in

Basic Load Ratings**C0 - Static Radial Rating**

907000 N
204000 lbf

C1(2) - Dynamic Radial Rating (Two-Rows)

572000 N
129000 lbf

Factors**e - ISO Factor³**

0.18

Y0 - ISO Factor⁴

3.69

Y1 - ISO Factor⁵

3.77

Y2 - ISO Factor⁶

5.62

Reference Thermal Speed Rating (Grease)

1800 rpm

Reference Thermal Speed Rating (Oil)⁷

2200 rpm

Cg - Geometry Factor⁸

0.0937

¹ Maximum housing fillet radius that bearing corners will clear.

² Maximum shaft fillet radius that bearing corners will clear.

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

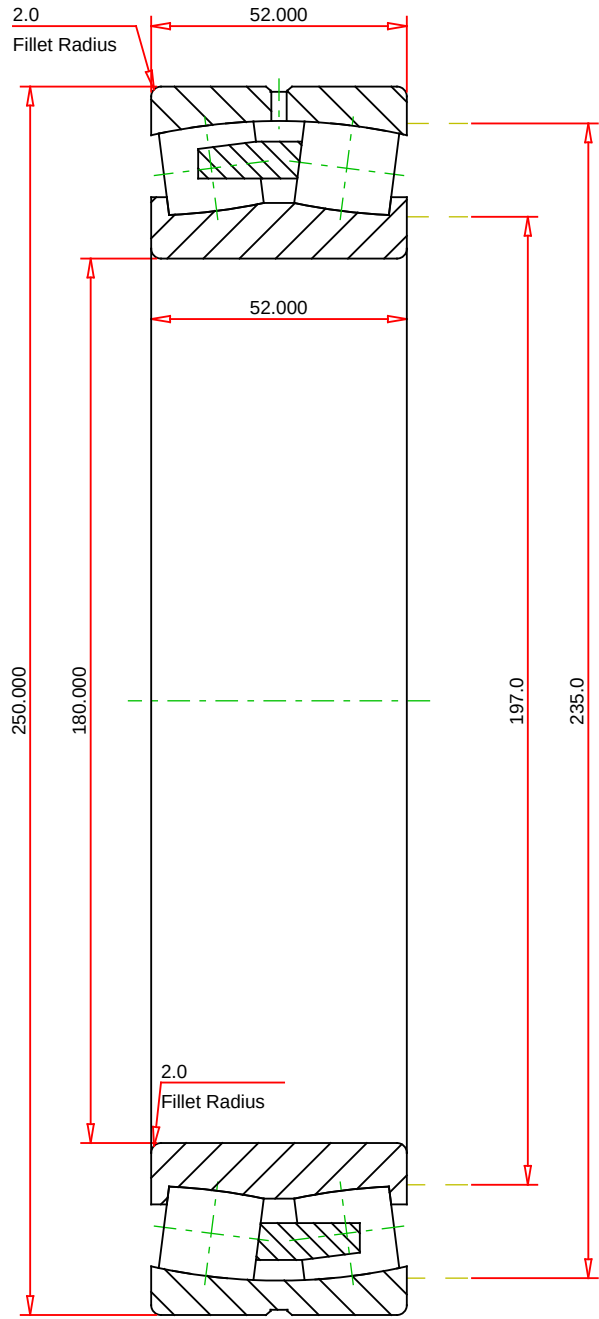
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a_3 .



METRIC UNITS

Number of Rollers Per Row	34	kg TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	23936EMW33C3		
ISO Factor e	0.18		SRB ASSEMBLY		
ISO Factor Y0	3.69				
ISO Factor Y1	3.77				
ISO Factor Y2	5.62				
Bearing Weight	7.6				
Cage Type	EM				
Cage Material	Brass				
			Dynamic Radial Rating (Two Rows)	572000	N
			Static Radial Rating	907000	N