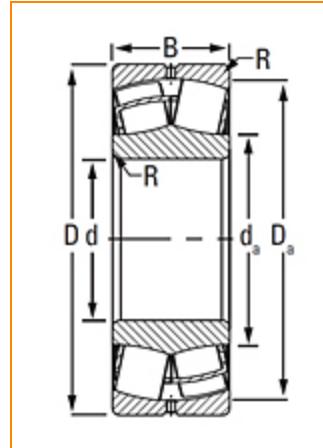




The Timken Company
 4500 Mt Pleasant St. NW
 N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 23136EJW33C3, 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](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#) | [Factors](#)

Specifications

UPC Code 087796312630

Design Unit Metric

d - Bore 180 mm

Cage Type EJ

Cage Material Steel

Superseded Part 23136CJW33C3

Dimensions



- Outer Diameter

300 mm
11.8110 in

B' - Inner Ring Width	96 mm 3.7795 in
------------------------------	--------------------

B - Outer Ring Width	96 mm 3.7795 in
-----------------------------	--------------------

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2.5 mm 0.1 in
---	------------------

r - Outer Ring "To Clear" Radius²	2.5 mm 0.1 in
---	------------------

da - Inner Ring Backing Diameter	208 mm 8.2000 in
---	---------------------

Da - Outer Ring Backing Diameter	275 mm 10.8000 in
---	----------------------

Basic Load Ratings

C0 - Static Radial Rating	2000000 N 449000 lbf
----------------------------------	-------------------------

C1(2) - Dynamic Radial Rating (Two-Rows)	1410000 N 317000 lbf
---	-------------------------

Factors

e - ISO Factor³	0.29
-----------------------------------	------

Y0 - ISO Factor⁴	2.27
------------------------------------	------

Y1 - ISO Factor⁵	2.32
------------------------------------	------

Y2 - ISO Factor⁶	3.45
------------------------------------	------

Reference Thermal Speed Rating (Grease)	1300 rpm
--	----------

**Reference Thermal Speed Rating
(Oil)⁷** 1500 rpm

C_g - Geometry Factor⁸ 0.0987

¹ Maximum housing fillet radius that bearing corners will clear.

² These maximum fillet radii will be cleared by the bearing corners.

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

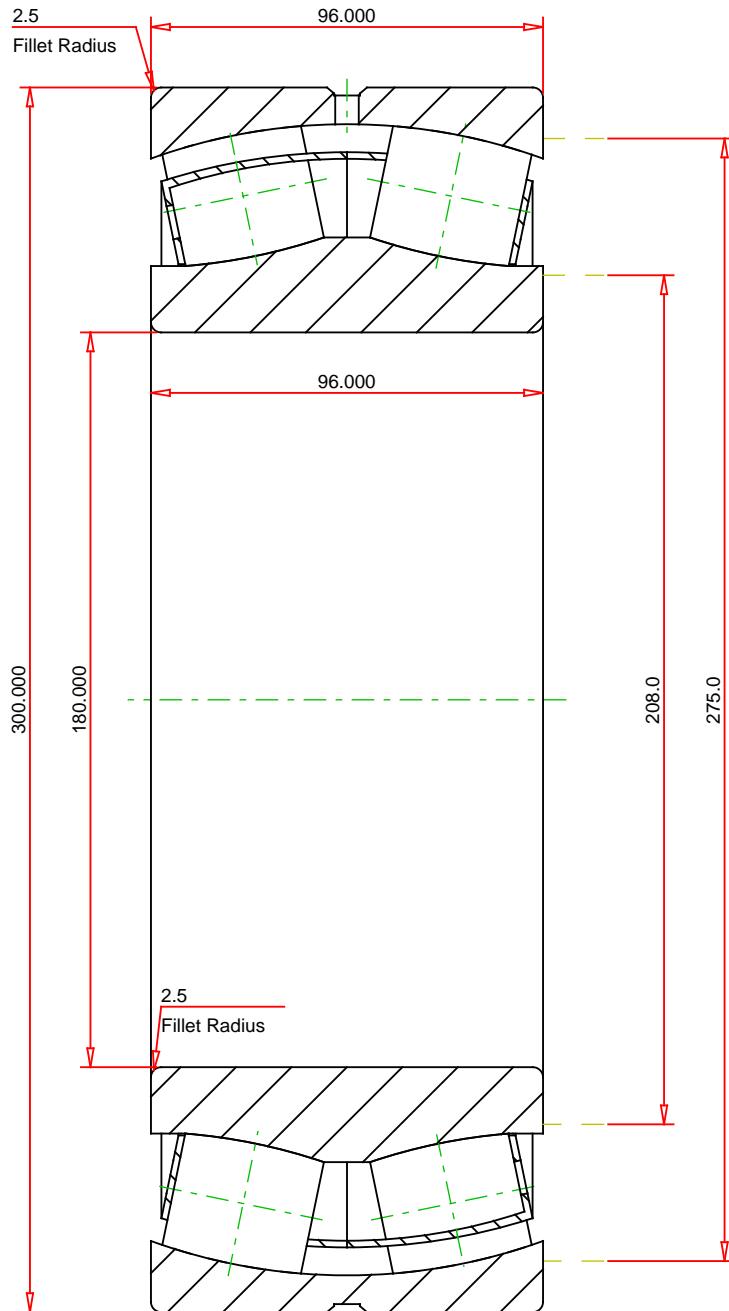
⁴ These factors apply for both inch and metric calculations. See engineering

⁵ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁶ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	22	 THE TIMKEN COMPANY NORTH CANTON, OHIO USA	23136EJW33C3
ISO Factor e	0.29		SRB ASSEMBLY
ISO Factor Y0	2.27		
ISO Factor Y1	2.32		
ISO Factor Y2	3.45		
Bearing Weight			
Cage Type	EJ		
Cage Material	Steel		
	kg		
Dynamic Radial Rating (Two Rows)	1410000	N	
Static Radial Rating	2000000	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