


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 23222EJW33, 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	087796233973
Design Unit	Metric
d - Bore	110 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	23222CJW33

Factors


e - ISO Factor¹	0.32
-----------------------------------	------

Y0 - ISO Factor²	2.06
Y1 - ISO Factor³	2.11
Y2 - ISO Factor⁴	3.14
Reference Thermal Speed Rating (Grease)	2000 rpm
Reference Thermal Speed Rating (Oil)⁵	2300 rpm
Cg - Geometry Factor⁶	0.0743

Dimensions

D - Outer Diameter	200 mm 7.874 in
B' - Inner Ring Width	69.8 mm 2.748 in
B - Outer Ring Width	69.800 mm 2.7480 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	2 mm 0.080 in
r - Outer Ring "To Clear" Radius⁸	2 mm 0.080 in
da - Inner Ring Backing Diameter	131 mm 5.2000 in
Da - Outer Ring Backing Diameter	182 mm 7.200 in

Basic Load Ratings

C0 - Static Radial Rating	887000 N 199000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	710000 N 160000 lbf

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.

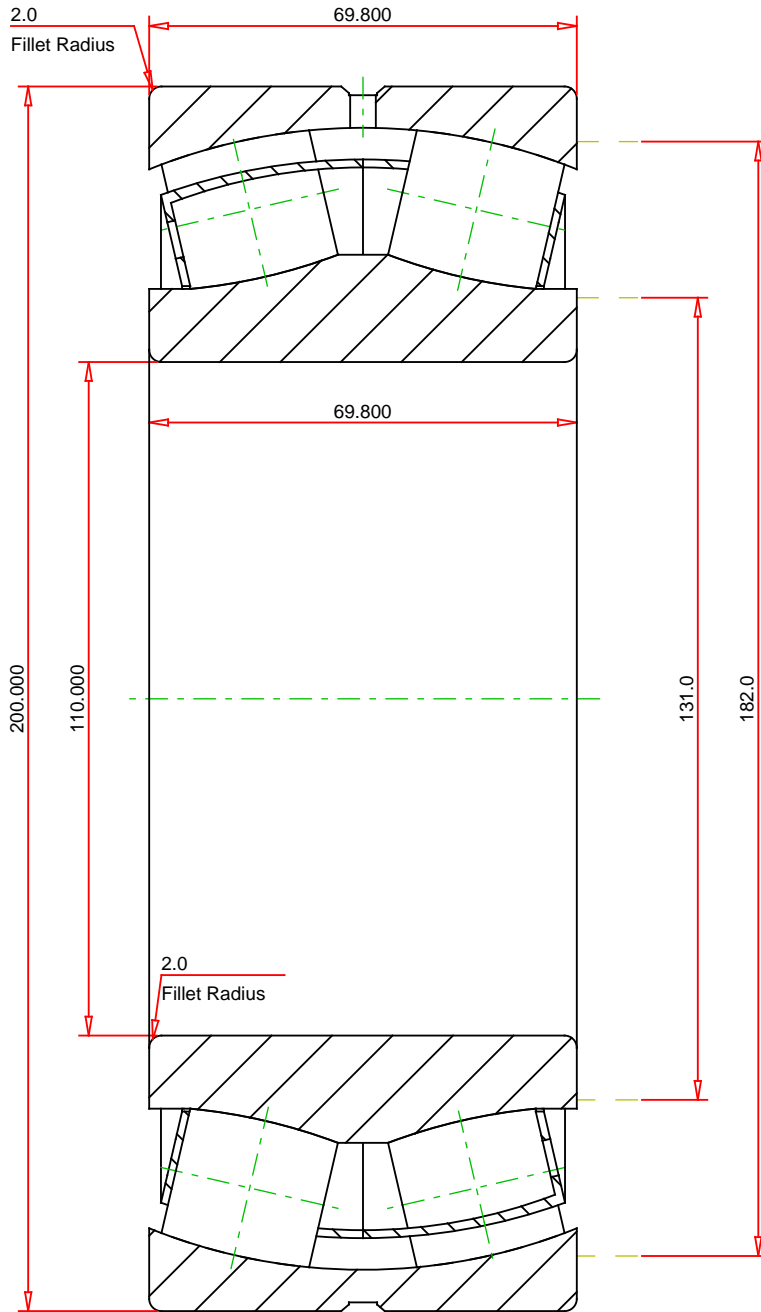
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor a3l.

⁷ Maximum housing fillet radius that bearing corners will clear.

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



METRIC UNITS

Number of Rollers Per Row	19
ISO Factor e	0.32
ISO Factor Y0	2.06
ISO Factor Y1	2.11
ISO Factor Y2	3.14
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

23222EJW33 SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	710000 N
Static Radial Rating	887000 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