


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 24124EJW33, 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	087796225893
Design Unit	Metric
d - Bore	120 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	24124CJW33

Factors



e - ISO Factor¹	0.36
-----------------------------------	------

Y0 - ISO Factor²	1.82
Y1 - ISO Factor³	1.86
Y2 - ISO Factor⁴	2.77
Reference Thermal Speed Rating (Grease)	1600 rpm
Reference Thermal Speed Rating (Oil)⁵	1700 rpm
Cg - Geometry Factor⁶	0.0754

Dimensions

D - Outer Diameter	200 mm 7.874 in
B' - Inner Ring Width	80 mm 3.1496 in
B - Outer Ring Width	80 mm 3.1496 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	135 mm 5.3000 in
Da - Outer Ring Backing Diameter	182 mm 7.200 in

Basic Load Ratings

C0 - Static Radial Rating	1080000 N 242000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	778000 N 175000 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.

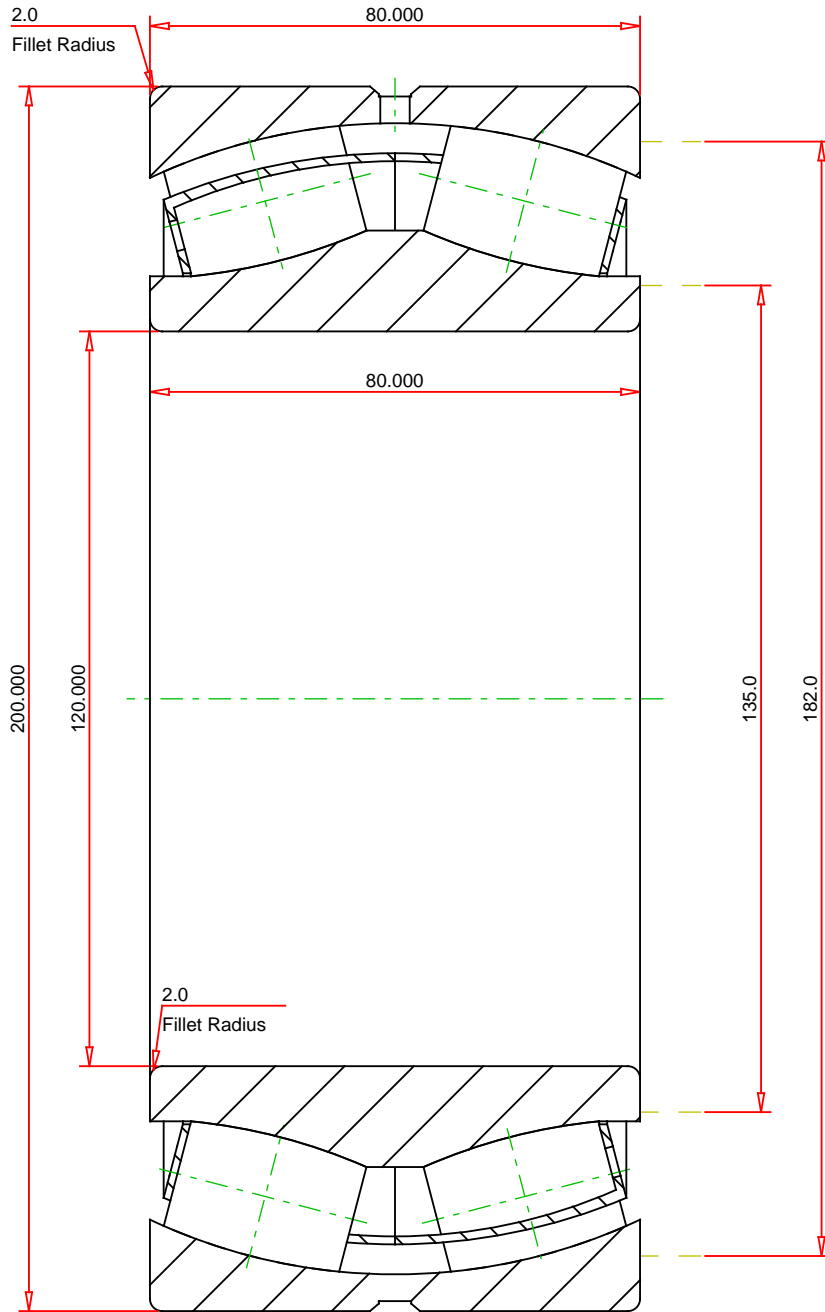
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor 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

Number of Rollers Per Row	21
ISO Factor e	0.36
ISO Factor Y0	1.82
ISO Factor Y1	1.86
ISO Factor Y2	2.77
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

24124EJW33	
SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	778000 N
Static Radial Rating	1080000 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