


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 23252EJW509C08, 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	087796166240
Design Unit	Metric
d - Bore	260 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	23252CJW509C08

Factors


e - ISO Factor¹	0.34
-----------------------------------	------

Y0 - ISO Factor²	1.94
Y1 - ISO Factor³	1.98
Y2 - ISO Factor⁴	2.95
Reference Thermal Speed Rating (Grease)	650 rpm
Reference Thermal Speed Rating (Oil)⁵	710 rpm
Cg - Geometry Factor⁶	0.1185

Dimensions

D - Outer Diameter	480 mm 18.898 in
B' - Inner Ring Width	174 mm 6.85 in
B - Outer Ring Width	174 mm 6.8500 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	4 mm 0.160 in
r - Outer Ring "To Clear" Radius⁸	4 mm 0.16 in
da - Inner Ring Backing Diameter	307.000 mm 12.100 in
Da - Outer Ring Backing Diameter	430.000 mm 16.9000 in

Basic Load Ratings

C0 - Static Radial Rating	4850000 N 1090000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	3510000 N 790000 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.

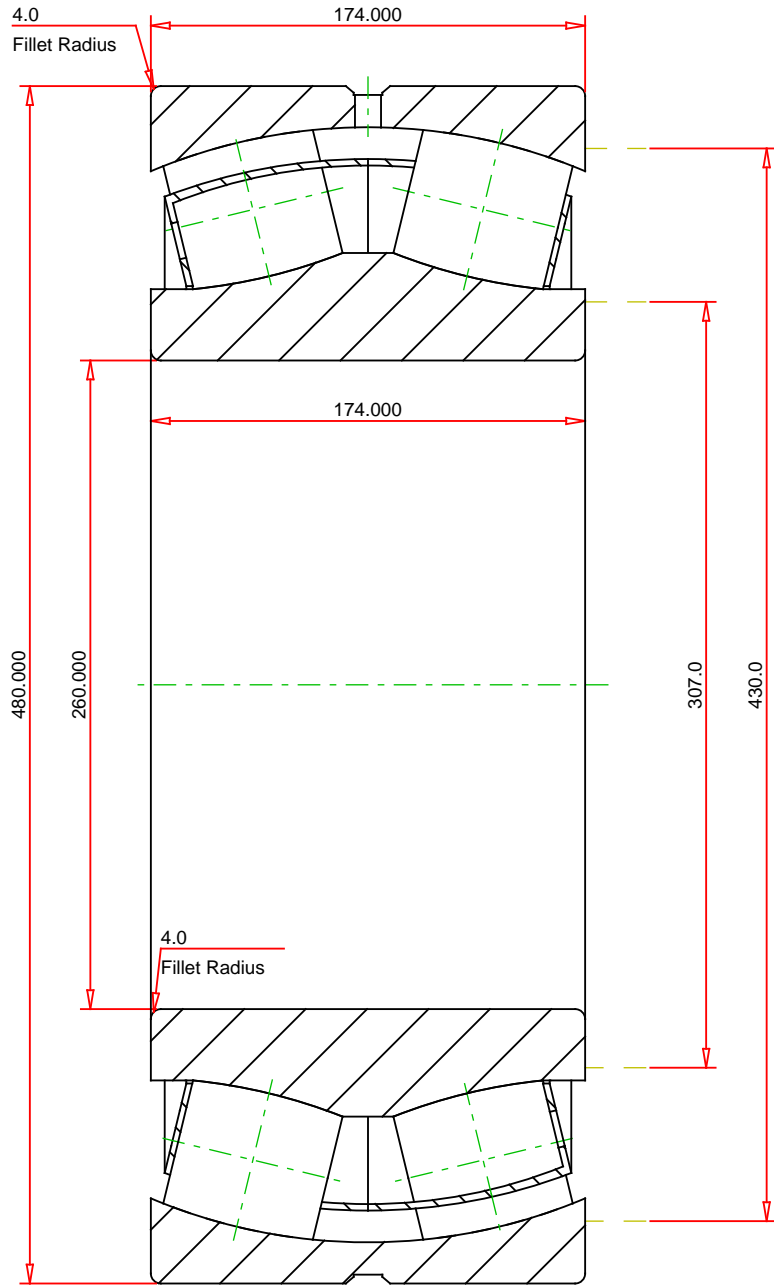
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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	18
ISO Factor e	0.34
ISO Factor Y0	1.94
ISO Factor Y1	1.98
ISO Factor Y2	2.95
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

23252EJW509C08 SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	3510000 N
Static Radial Rating	4850000 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