

TIMKEN**The Timken Company**

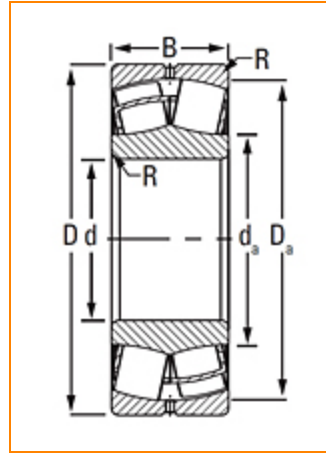
4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000**E-Mail:** CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 22317EJW33, Spherical Roller Bearings - Steel Cage

- Longer bearing life achieved from higher capacity (vs. competitors)
- Longer lubrication life achieved from lower operating temperatures due to reduced internal friction and running torque from cage guided rollers
- Better contaminant purging from slots on cage face helps extend bearing life
- Greater fatigue strength and increased wear resistance provide tougher protection against shock and acceleration loading from a hardened steel cage



[Key Dimensions](#) | [Factors](#) | [Dimensions](#) | [Basic Load Ratings](#)

Key Dimensions

UPC Code	087796026650
Design Unit	Metric
Bore (d)	85 mm
O.D. (D)	180 mm 7.0866 in
B' - Inner Ring Width	60 mm 2.3622 in
B - Outer Ring Width	60 mm 2.3622 in



Dynamic Radial Load Rating - 1M	584000 N
Revs (C1)	131000 lbf

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

Factors

Y0 Factor²	2.06
------------------------------	------

Y1 Factor³	2.11
------------------------------	------

Y2 Factor⁴	3.14
------------------------------	------

Geometry Factor (Cg)⁵	0.0662
---	--------

Dimensions

R - Inner Ring "To Clear" Radius⁶	2.5 mm 0.100 in
---	--------------------

r - Outer Ring "To Clear" Radius⁷	2.5 mm 0.1 in
---	------------------

Shaft Backing Shoulder Diameter	110.000 mm 4.3000 in
--	-------------------------

Housing Backing Shoulder Diameter	162.000 mm 6.400 in
--	------------------------

Basic Load Ratings

Static Radial Load Rating (C0)	543000 N 122000 lbf
---------------------------------------	------------------------

Thermal Reference Speed - Grease	3100 rpm
---	----------

Thermal Reference Speed - Oil⁸	3600 rpm
--	----------

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.

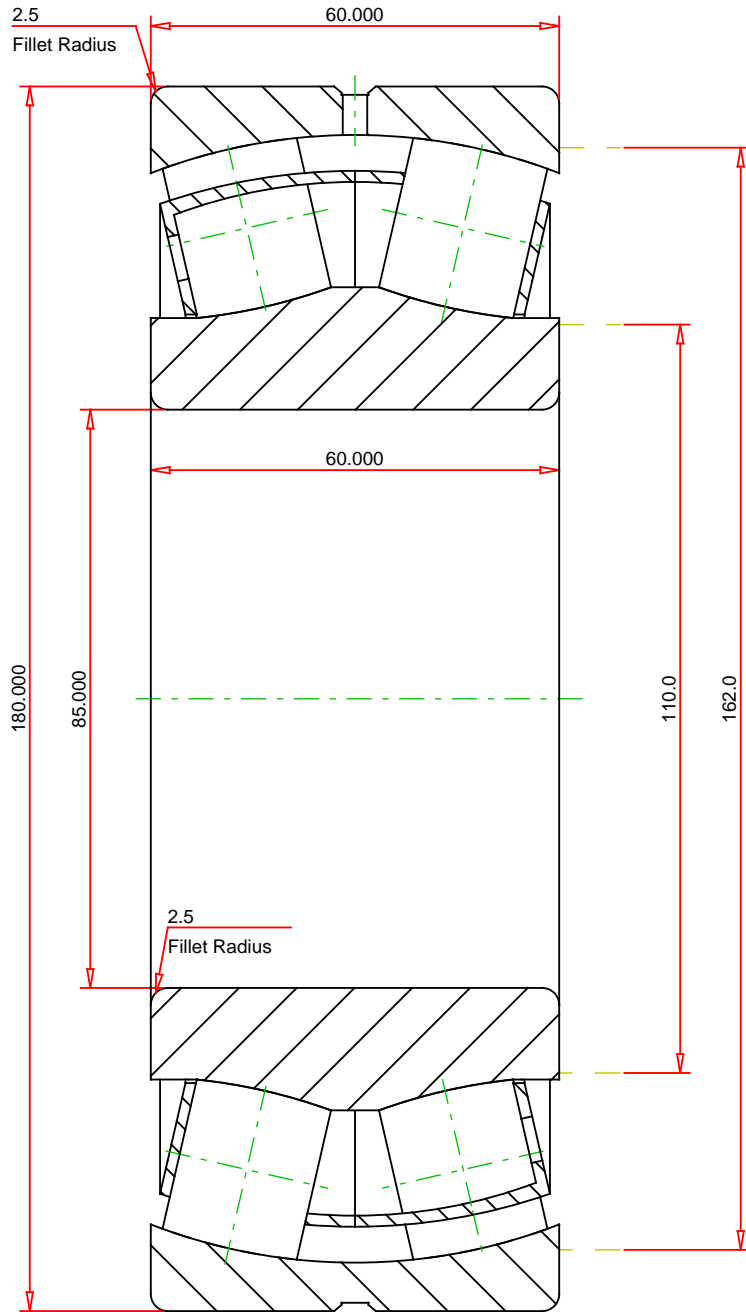
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ Geometry constant for Lubrication Life Adjustment Factor a_3 .

⁶ Maximum housing fillet radius that bearing corners will clear.

⁷ These maximum fillet radii will be cleared by the bearing corners.

⁸ See thermal speed ratings in the engineering section.



METRIC UNITS

Number of Rollers Per Row	16
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

22317EJW33
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	543000	N
Static Radial Rating	584000	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