

The Timken Company

4500 Mt Pleasant St. NW N. Canton, OH 44720

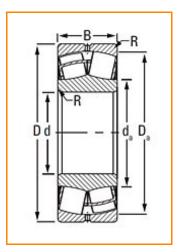
Phone: (234) 262-3000

E-Mail: <u>CustomerCAD@timken.com</u> • Web site: <u>www.timken.com</u>

Timken Part Number 22222EJW33C3, 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		-
Design Unit	METRIC	
Bearing Weight	7.200 Kg 15.800 lb	
Cage Type	EJ	
UPC Code	87796025264	
Cage Material	Steel	
Superseded Part	22222CJW33C3	

Dimensions		-

d - Bore	110.000 mm 4.3307 in
D - Outer Diameter	200.000 mm 7.8740 in
B' - Inner Ring Width	53 mm 2.0866 in
B - Outer Ring Width	53.000 mm 2.0866 in

R - Inner Ring "To Clear" Radius ¹ 2.000 mm 0.080 in
r - Outer Ring "To Clear" 2.000 mm Radius ² 0.080 in
da - Inner Ring Backing Diameter 133.000 mm 5.200 in
Da - Outer Ring Backing182.000 mmDiameter7.200 in

Basic Load Ratings		-
C0 - Static Radial Ratio	653000 N 147000 lbf	
C1(2) - Dynamic Radia (Two-Rows)	1 Rating 555000 N 125000 lbf	

Fac	tors		-
	e - ISO Factor ³	0.25	
	Y0 - ISO Factor ⁴	2.73	
	Y0 - ISO Factor ⁴	2.73	

Y1 - ISO Factor ⁵	4.06
Y2 - ISO Factor ⁶	2.67
Reference Thermal Speed Rating (Grease)	2900
Reference Thermal Speed Rating (Oil) ⁷	3500
Cg - Geometry Factor ⁸	0.0742

¹ Maximum housing fillet radius that bearing corners will clear.

² Maximum shaft fillet radius that bearing corners will clear.

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

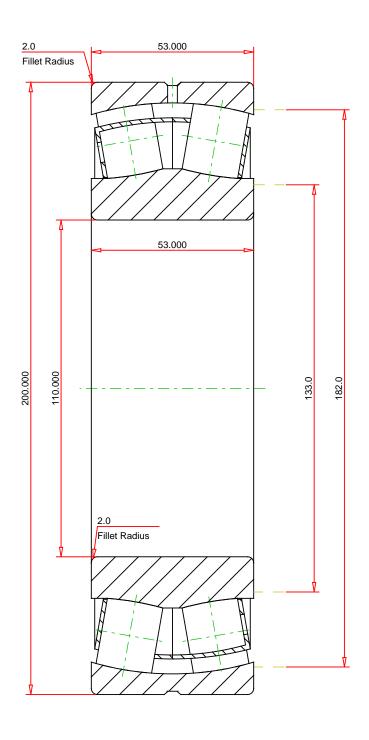
⁴ These factors apply for both inch and metric calculations. See engineering

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 a31.



METRIC UNITS

Number of Rollers Per Row	19	
ISO Factor e	0.25	
ISO Factor Y0	2.73	
ISO Factor Y1	4.06	
ISO Factor Y2	2.67	
Bearing Weight	7.2	kg
Cage Type	EJ	
Cage Material	Steel	ı

THE TIMKEN COMPANY NORTH CANTON, OHIO USA

22222EJW33C3 SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)
Static Radial Rating

555000 653000

Ν

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