

## The Timken Company

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

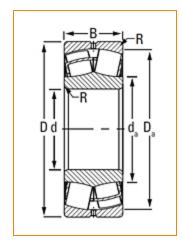
**Phone:** (234) 262-3000

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## Part Number 22209EJW33, 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.





## <u>Specifications</u> | <u>Factors</u> | <u>Dimensions</u> | <u>Abutment and Fillet Dimensions</u> | <u>Basic Load Ratings</u>

Spe	Specifications –			
	UPC Code	087796022799		
	Design Unit	Metric		
	d - Bore	45 mm		
	Lubrication Type	Standard Grease		
	Cage Type	EJ		
	Cage Material	Steel		
	Superseded Part	22209CJW33		

Factors		-
e - ISO Factor <sup>1</sup>	0.26	

2.58
2.64
3.93
5500 rpm
6800 rpm
0.0462

Q.F. mans	
<b>D - Outer Diameter</b> 85 mm  3.3465 in	
B' - Inner Ring Width  23 mm  0.9055 in	
B - Outer Ring Width  23 mm  0.9055 in	

Abutn	nent and Fillet Dimensions	-
R	R - Inner Ring "To Clear" Radius <sup>7</sup>	1 mm 0.040 in
r	- Outer Ring "To Clear" Radius <sup>8</sup>	1 mm 0.040 in
d	la - Inner Ring Backing Diameter	55.000 mm 2.200 in
	Da - Outer Ring Backing Diameter	77.000 mm 3.000 in

Basic Load Ratings

CO - Static Radial Rating	109000 N 24500 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	108000 N 24200 lbf

 $<sup>^{1}</sup>$  These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>&</sup>lt;sup>2</sup> These factors apply for both inch and metric calculations. See engineering

<sup>&</sup>lt;sup>3</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

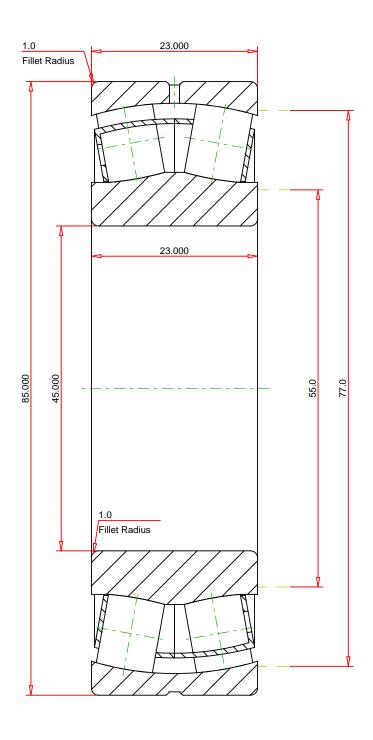
<sup>&</sup>lt;sup>4</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>&</sup>lt;sup>5</sup> See thermal speed ratings in the engineering section.

<sup>&</sup>lt;sup>6</sup> Geometry constant for Lubrication Life Adjustment Factor a3l.

<sup>&</sup>lt;sup>7</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>&</sup>lt;sup>8</sup> These maximum fillet radii will be cleared by the bearing corners.



## METRIC UNITS

Number of Rollers Per Row ISO Factor e ISO Factor Y0 ISO Factor Y1 ISO Factor Y2 Bearing Weight Cage Type	16 0.26 2.58 2.64 3.93 k EJ		22209EJW33 SRB ASSEMBLY	
Cage Material	Steel			
		THE TIMKEN COMPANY		
		NORTH CANTON, OHIO USA	Dynamic Radial Rating (Two Rows) 108000 Static Radial Rating 109000	N 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		