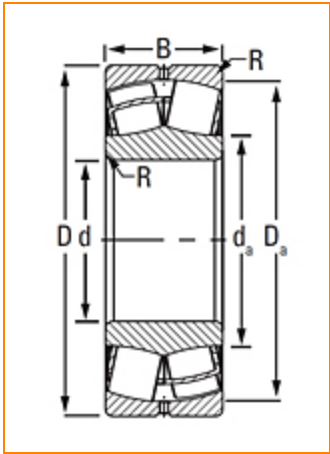




The Timken Company
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Part Number 22216EJW33, Spherical Roller Bearings - Steel Cage

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	087796023345
Design Unit	Metric
d - Bore	80 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22216CJW33

Factors	
 e - ISO Factor ¹	0.22

Y0 - ISO Factor²	3.07
Y1 - ISO Factor³	3.14
Y2 - ISO Factor⁴	4.67
Reference Thermal Speed Rating (Grease)	3500 rpm
Reference Thermal Speed Rating (Oil)⁵	4300 rpm
Cg - Geometry Factor⁶	0.0573

Dimensions

D - Outer Diameter	140 mm 5.5118 in
B' - Inner Ring Width	33 mm 1.2992 in
B - Outer Ring Width	33 mm 1.2992 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	95 mm 3.700 in
Da - Outer Ring Backing Diameter	129.000 mm 5.100 in

Basic Load Ratings

C0 - Static Radial Rating	278000 N 62500 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	254000 N 57200 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.

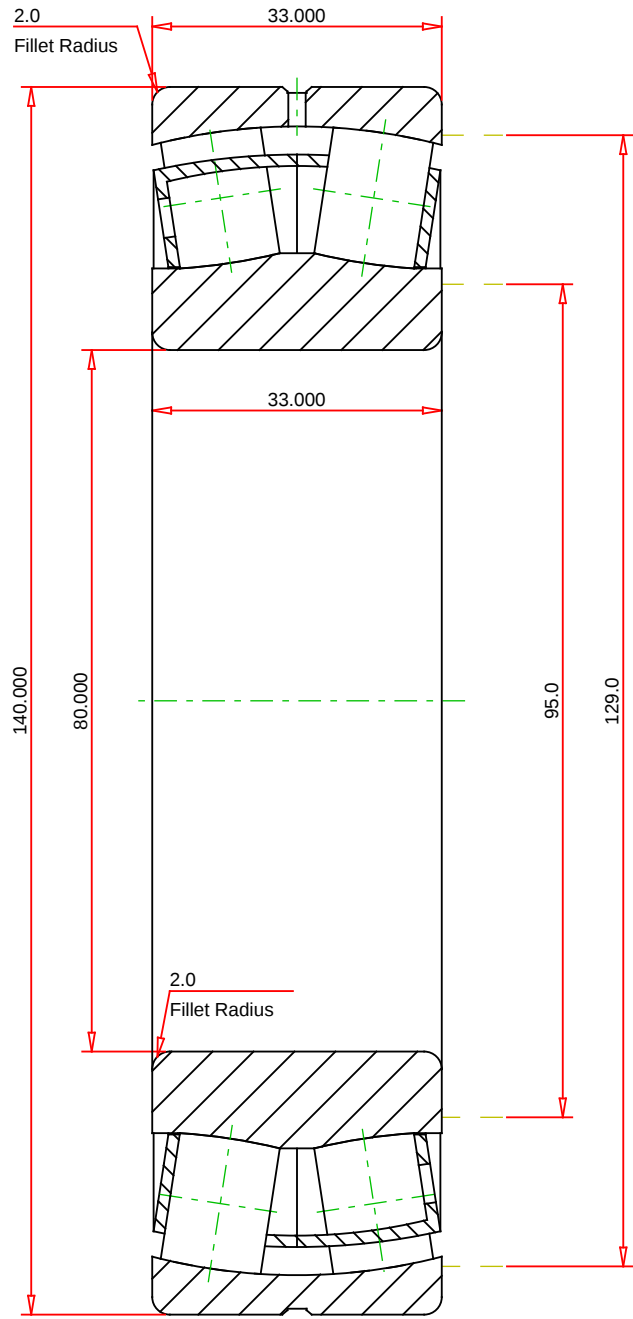
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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 Row18 ISO Factor e0.22 ISO Factor Y03.07 ISO Factor Y13.14 ISO Factor Y24.67 Bearing Weightkg Cage TypeEJ Cage MaterialSteel		TIMKEN® 22216EJW33 SRB ASSEMBLY	
THE TIMKEN COMPANY NORTH CANTON, OHIO USA		Dynamic Radial Rating (Two Rows)254000N Static Radial Rating278000N	
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	