


The Timken Company

4500 Mt Pleasant St. NW

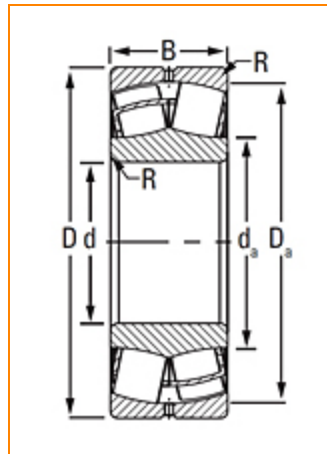
N. Canton, OH 44720

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Part Number 21312EJW33C3, 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	087796208711
Design Unit	Metric
d - Bore	60 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	21312CJW33C3

Factors


 e - ISO Factor¹

0.23

Y0 - ISO Factor²	2.84
Y1 - ISO Factor³	2.91
Y2 - ISO Factor⁴	4.33
Reference Thermal Speed Rating (Grease)	4200 rpm
Reference Thermal Speed Rating (Oil)⁵	5100 rpm
Cg - Geometry Factor⁶	0.0542

Dimensions

D - Outer Diameter	130 mm 5.1181 in
B' - Inner Ring Width	31 mm 1.2205 in
B - Outer Ring Width	31 mm 1.2205 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	2 mm 0.080 in
r - Outer Ring "To Clear" Radius⁸	2 mm 0.08 in
da - Inner Ring Backing Diameter	80.000 mm 3.200 in
Da - Outer Ring Backing Diameter	116.000 mm 4.600 in

Basic Load Ratings

C0 - Static Radial Rating	225000 N 50500 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	219000 N 49200 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.

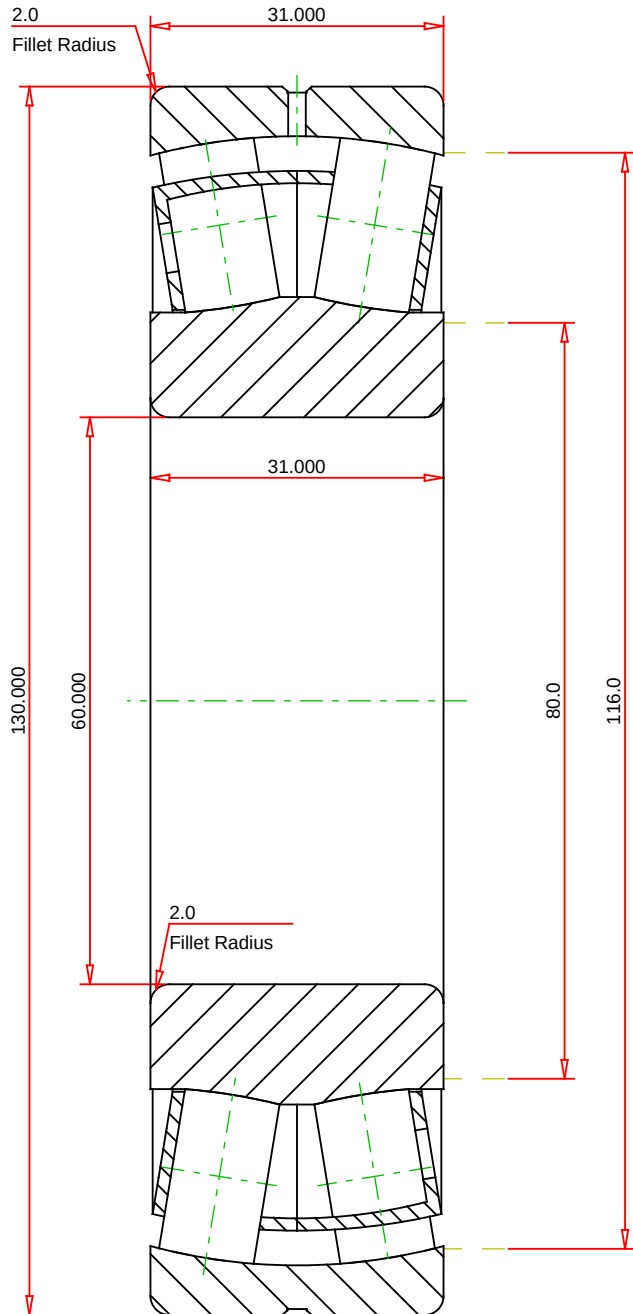
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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 Row16 ISO Factor e0.23 ISO Factor Y02.84 ISO Factor Y12.91 ISO Factor Y24.33 Bearing Weightkg Cage TypeEJ Cage MaterialSteel	TIMKEN®		21312EJW33C3 SRB ASSEMBLY	
	THE TIMKEN COMPANY NORTH CANTON, OHIO USA		Dynamic Radial Rating (Two Rows)219000N Static Radial Rating225000N	

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