


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 21314EJW33C4, 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.



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Specifications

UPC Code	087796030633
Design Unit	Metric
d - Bore	70 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	21314CJW33C4

Factors


e - ISO Factor¹	0.23
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Y0 - ISO Factor²	2.9
Y1 - ISO Factor³	2.97
Y2 - ISO Factor⁴	4.42
Reference Thermal Speed Rating (Grease)	3700 rpm
Reference Thermal Speed Rating (Oil)⁵	4500 rpm
Cg - Geometry Factor⁶	0.0594

Dimensions

D - Outer Diameter	150 mm 5.9055 in
B' - Inner Ring Width	35 mm 1.378 in
B - Outer Ring Width	35 mm 1.378 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	93.000 mm 3.700 in
Da - Outer Ring Backing Diameter	135.000 mm 5.300 in

Basic Load Ratings

C0 - Static Radial Rating	292000 N 65600 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	289000 N 65000 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.

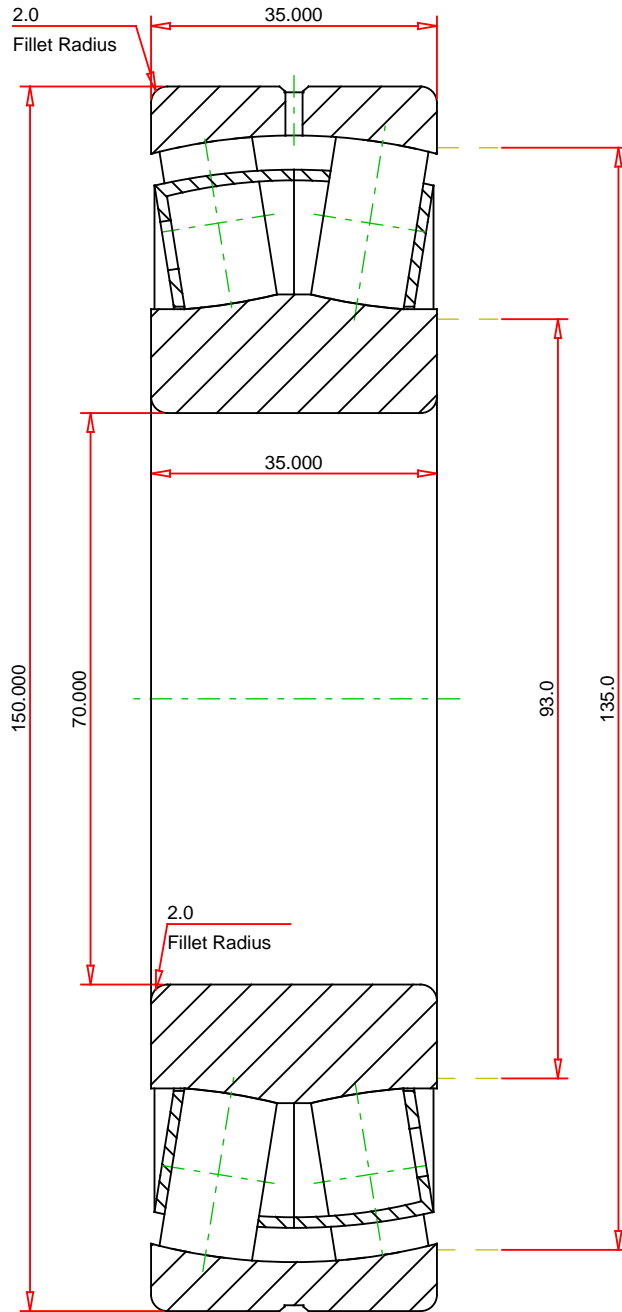
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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 Row	16
ISO Factor e	0.23
ISO Factor Y0	2.90
ISO Factor Y1	2.97
ISO Factor Y2	4.42
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

21314EJW33C4
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	289000	N
Static Radial Rating	292000	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