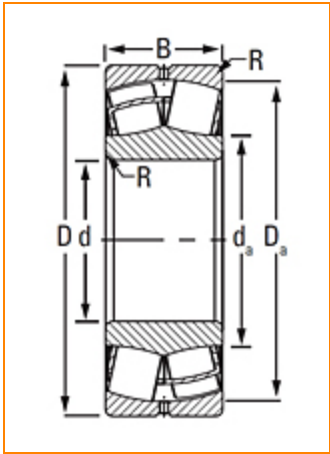




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Part Number 22219EJW33, Spherical Roller Bearings - Steel Cage

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	087796208742
Design Unit	Metric
d - Bore	95 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22219CJW33

Factors	
 e - ISO Factor ¹	0.23

Y0 - ISO Factor²	2.82
Y1 - ISO Factor³	2.88
Y2 - ISO Factor⁴	4.29
Reference Thermal Speed Rating (Grease)	3200 rpm
Reference Thermal Speed Rating (Oil)⁵	3900 rpm
Cg - Geometry Factor⁶	0.067

Dimensions

D - Outer Diameter	170 mm
B' - Inner Ring Width	43 mm
B - Outer Ring Width	43 mm

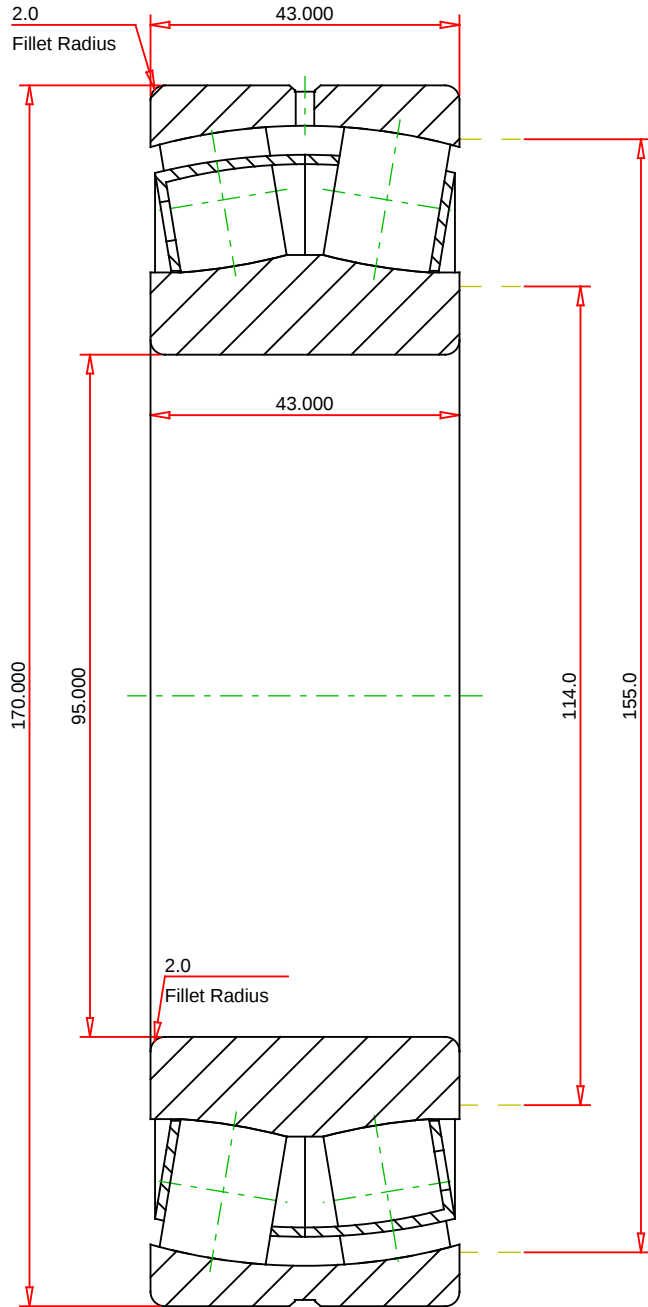
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	2 mm
r - Outer Ring "To Clear" Radius⁸	2 mm
da - Inner Ring Backing Diameter	114.0 mm
Da - Outer Ring Backing Diameter	155 mm

Basic Load Ratings

C0 - Static Radial Rating	441000 N
C1(2) - Dynamic Radial Rating (Two-Rows)	385000 N

- 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 Row19 ISO Factor e0.23 ISO Factor Y02.82 ISO Factor Y12.88 ISO Factor Y24.29 Bearing Weight Cage TypeEJ Cage MaterialSteel kg	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	22219EJW33 SRB ASSEMBLY Dynamic Radial Rating (Two Rows)385000 Static Radial Rating441000 N N
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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