


The Timken Company

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Part Number 22219EJW33C3, 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	087796025059
Design Unit	Metric
d - Bore	95 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22219CJW33C3

Factors


e - ISO Factor¹	0.23
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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

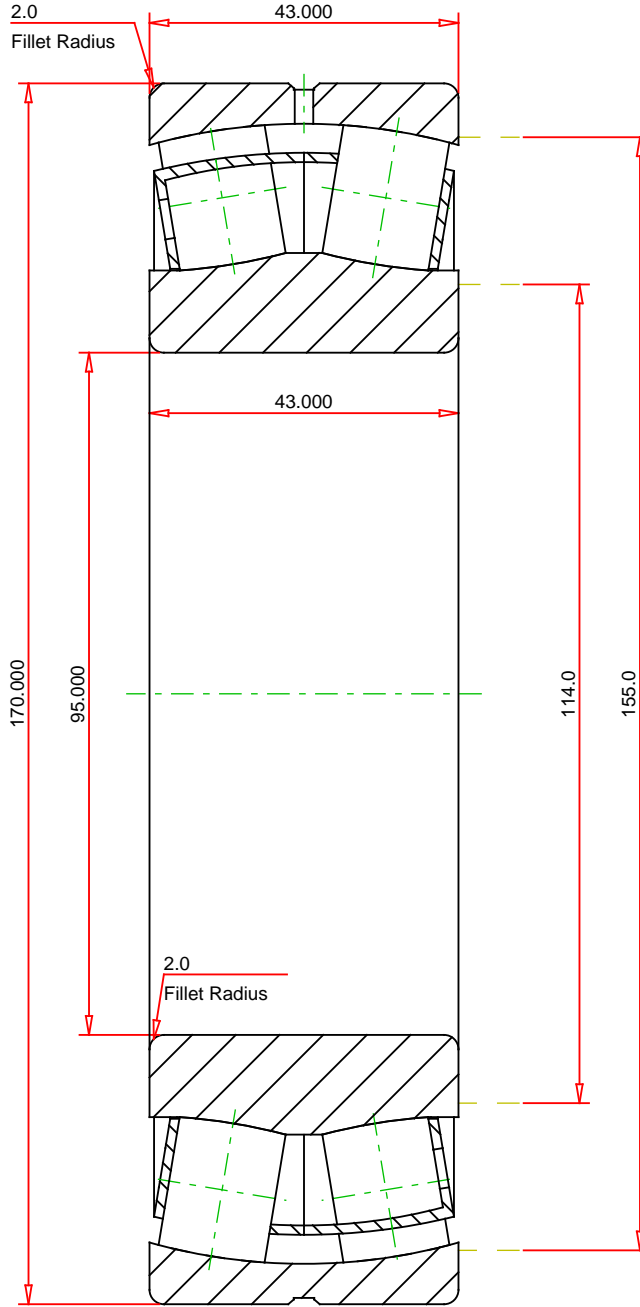
Abutment and Fillet Dimensions

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.
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- 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	19
ISO Factor e	0.23
ISO Factor Y0	2.82
ISO Factor Y1	2.88
ISO Factor Y2	4.29
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

22219EJW33C3
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	385000	N
Static Radial Rating	441000	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