


The Timken Company

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Part Number 21319EJW33C3, 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	087796192461
Design Unit	Metric
d - Bore	95 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	21319CJW33C3

Factors



e - ISO Factor¹	0.22
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Y0 - ISO Factor²	2.96
Y1 - ISO Factor³	3.02
Y2 - ISO Factor⁴	4.5
Reference Thermal Speed Rating (Grease)	3000 rpm
Reference Thermal Speed Rating (Oil)⁵	3600 rpm
Cg - Geometry Factor⁶	0.0716

Dimensions

D - Outer Diameter	200 mm 7.874 in
B' - Inner Ring Width	45 mm 1.7717 in
B - Outer Ring Width	45 mm 1.7717 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	2.5 mm 0.100 in
r - Outer Ring "To Clear" Radius⁸	2.5 mm 0.1 in
da - Inner Ring Backing Diameter	125 mm 4.9000 in
Da - Outer Ring Backing Diameter	180.000 mm 7.1000 in

Basic Load Ratings

C0 - Static Radial Rating	483000 N 109000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	474000 N 107000 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.

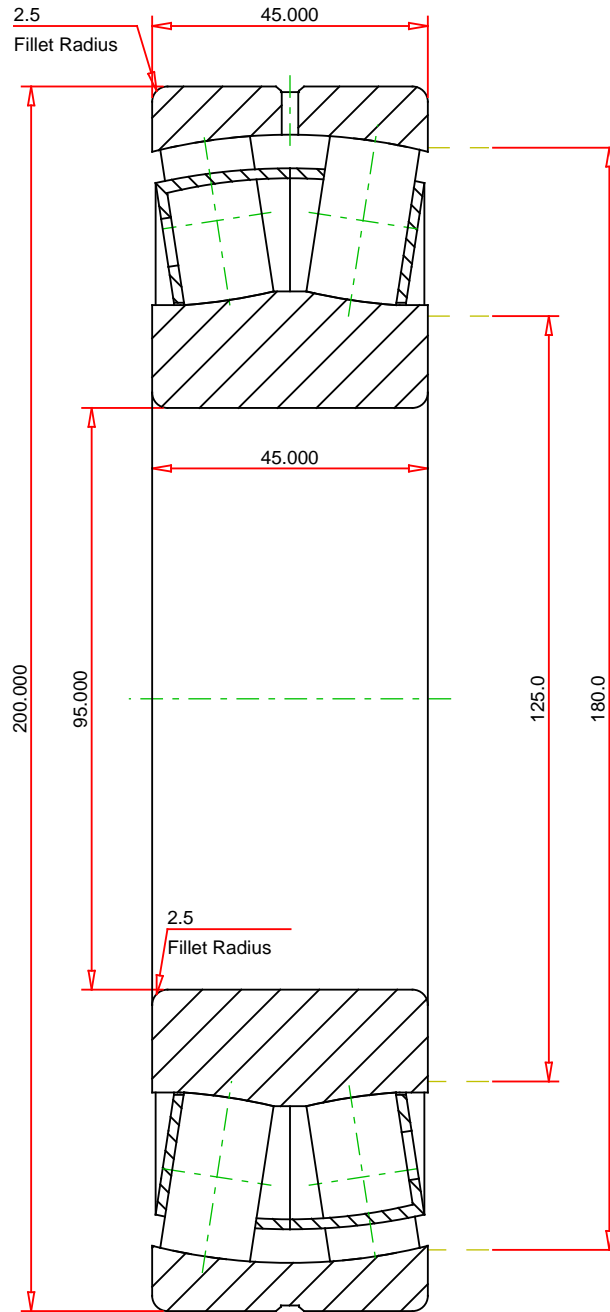
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor a3l.

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	0.22
ISO Factor Y0	2.96
ISO Factor Y1	3.02
ISO Factor Y2	4.50
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

21319EJW33C3 SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	474000 N
Static Radial Rating	483000 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.

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