


The Timken Company

4500 Mt Pleasant St. NW

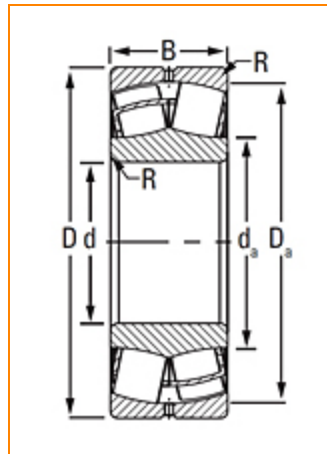
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Part Number 22319EJW33, Spherical Roller Bearings - Steel Cage

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	087796234857
Design Unit	Metric
d - Bore	95 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22319CJW33

Factors


 e - ISO Factor¹

0.32

Y0 - ISO Factor²	2.05
Y1 - ISO Factor³	2.1
Y2 - ISO Factor⁴	3.13
Reference Thermal Speed Rating (Grease)	2600 rpm
Reference Thermal Speed Rating (Oil)⁵	3000 rpm
Cg - Geometry Factor⁶	0.0716

Dimensions

D - Outer Diameter	200 mm 7.874 in
B' - Inner Ring Width	67 mm 2.6378 in
B - Outer Ring Width	67 mm 2.6378 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	122.0 mm 4.8000 in
Da - Outer Ring Backing Diameter	180.000 mm 7.1000 in

Basic Load Ratings

C0 - Static Radial Rating	774000 N 174000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	694000 N 156000 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.

