


The Timken Company

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Part Number 22318EJW33C4, 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	087796026797
Design Unit	Metric
d - Bore	90 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22318CJC3

Factors



e - ISO Factor¹	0.32
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Y0 - ISO Factor²	2.04
Y1 - ISO Factor³	2.09
Y2 - ISO Factor⁴	3.11
Reference Thermal Speed Rating (Grease)	2900 rpm
Reference Thermal Speed Rating (Oil)⁵	3400 rpm
Cg - Geometry Factor⁶	0.0685

Dimensions

D - Outer Diameter	190 mm 7.4803 in
B' - Inner Ring Width	64 mm 2.5197 in
B - Outer Ring Width	64 mm 2.5197 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	116 mm 4.6000 in
Da - Outer Ring Backing Diameter	171.000 mm 6.7000 in

Basic Load Ratings

C0 - Static Radial Rating	659000 N 148000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	606000 N 136000 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.

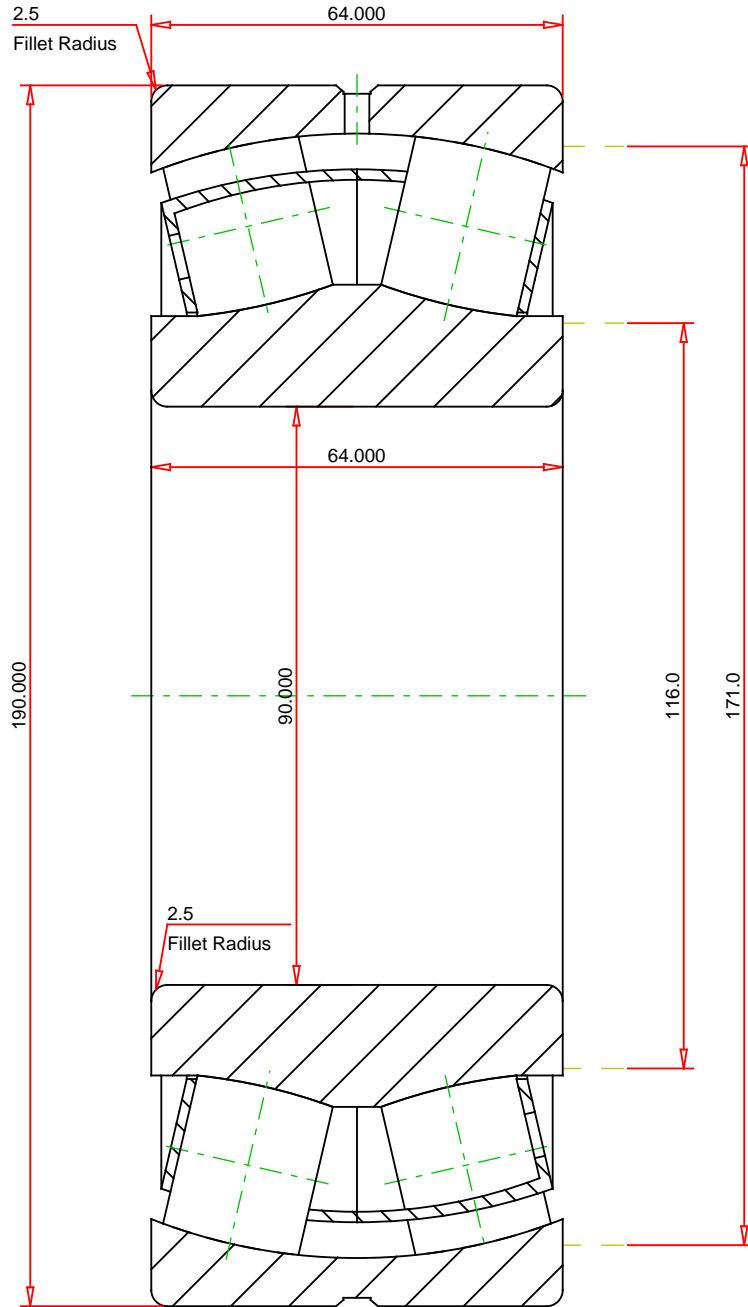
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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	0.32
ISO Factor Y0	2.04
ISO Factor Y1	2.09
ISO Factor Y2	3.11
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

22318EJW33C4
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	606000	N
Static Radial Rating	659000	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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