


The Timken Company

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Part Number 22238EJW33, 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	087796290389
Design Unit	Metric
d - Bore	190 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22238CJW33

Factors


ISO Factor¹	0.25
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Y0 - ISO Factor²	2.62
Y1 - ISO Factor³	2.67
Y2 - ISO Factor⁴	3.98
Reference Thermal Speed Rating (Grease)	1500 rpm
Reference Thermal Speed Rating (Oil)⁵	1800 rpm
Cg - Geometry Factor⁶	0.0967

Dimensions

D - Outer Diameter	340 mm 13.3858 in
B' - Inner Ring Width	92 mm 3.622 in
B - Outer Ring Width	92 mm 3.622 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	3 mm 0.120 in
r - Outer Ring "To Clear" Radius⁸	3 mm 0.12 in
da - Inner Ring Backing Diameter	226.000 mm 8.900 in
Da - Outer Ring Backing Diameter	310 mm 12.2000 in

Basic Load Ratings

C0 - Static Radial Rating	1960000 N 440000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1550000 N 348000 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.

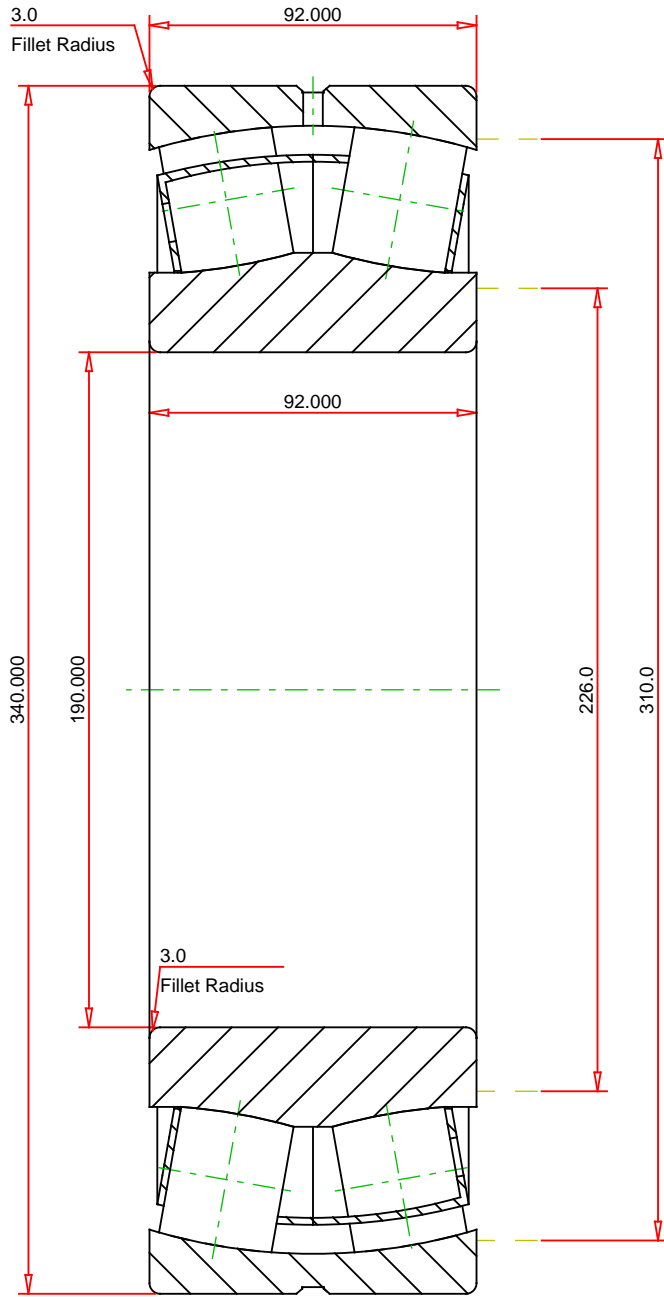
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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.



METRIC UNITS

Number of Rollers Per Row	19
ISO Factor e	0.25
ISO Factor Y0	2.62
ISO Factor Y1	2.67
ISO Factor Y2	3.98
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

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NORTH CANTON, OHIO USA

22238EJW33 SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	1550000 N
Static Radial Rating	1960000 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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