


The Timken Company

4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com
Part Number 24038EJW33, 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	087796193826
Design Unit	Metric
d - Bore	190 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	24038CJW33

Factors


e - ISO Factor¹	0.31
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Y0 - ISO Factor²	2.15
Y1 - ISO Factor³	2.2
Y2 - ISO Factor⁴	3.27
Reference Thermal Speed Rating (Grease)	1200 rpm
Reference Thermal Speed Rating (Oil)⁵	1400 rpm
Cg - Geometry Factor⁶	0.0995

Dimensions

D - Outer Diameter	290 mm 11.4173 in
B' - Inner Ring Width	100 mm 3.937 in
B - Outer Ring Width	100 mm 3.937 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	2 mm 0.080 in
r - Outer Ring "To Clear" Radius⁸	2 mm 0.080 in
da - Inner Ring Backing Diameter	210 mm 8.3000 in
Da - Outer Ring Backing Diameter	268.000 mm 10.600 in

Basic Load Ratings

C0 - Static Radial Rating	2100000 N 473000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1330000 N 300000 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.

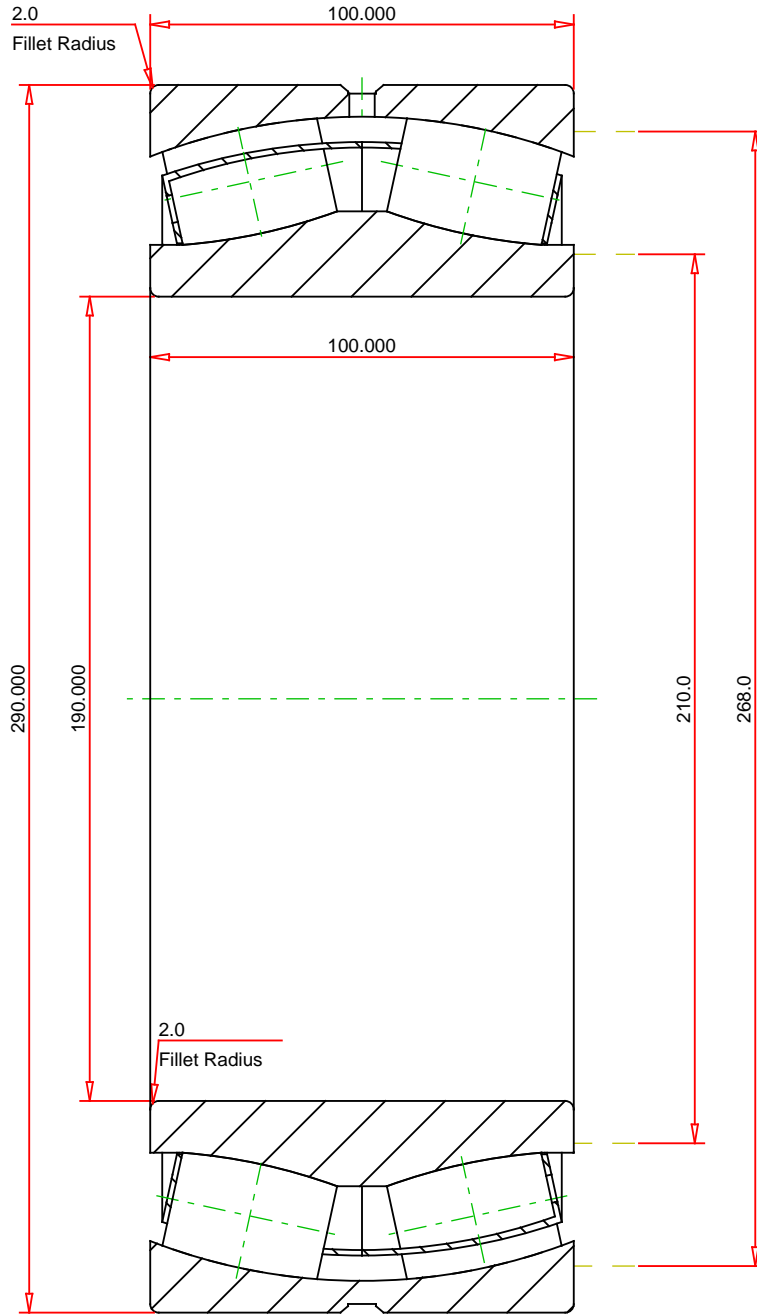
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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	26
ISO Factor e	0.31
ISO Factor Y0	2.15
ISO Factor Y1	2.20
ISO Factor Y2	3.27
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

24038EJW33
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	1330000	N
Static Radial Rating	2100000	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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