


The Timken Company

4500 Mt Pleasant St. NW

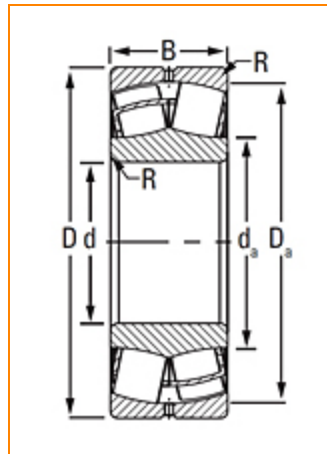
N. Canton, OH 44720

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Part Number 24138EJW33, 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	087796238602
Design Unit	Metric
d - Bore	190 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	24138CJW33

Factors


 e - ISO Factor¹

0.36

Y0 - ISO Factor²	1.81
Y1 - ISO Factor³	1.85
Y2 - ISO Factor⁴	2.76
Reference Thermal Speed Rating (Grease)	810 rpm
Reference Thermal Speed Rating (Oil)⁵	880 rpm
Cg - Geometry Factor⁶	0.0942

Dimensions

D - Outer Diameter	320 mm 12.5984 in
B' - Inner Ring Width	128 mm 5.0394 in
B - Outer Ring Width	128 mm 5.0394 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	215.000 mm 8.5000 in
Da - Outer Ring Backing Diameter	290 mm 11.4000 in

Basic Load Ratings

C0 - Static Radial Rating	2760000 N 619000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1870000 N 421000 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.

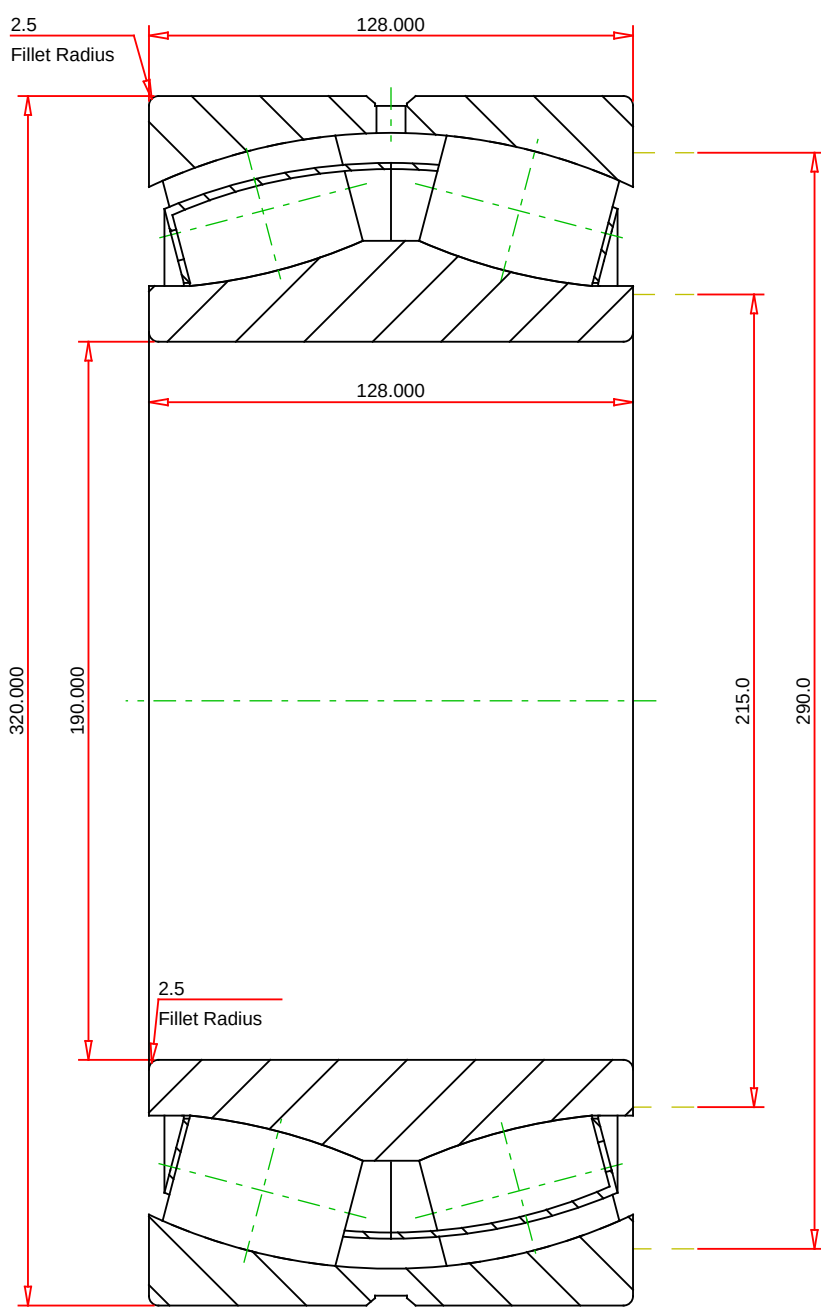
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

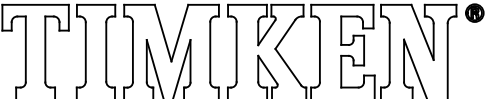
⁶ Geometry constant for Lubrication Life Adjustment Factor a_3 .

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	21		24138EJW33 SRB ASSEMBLY	
ISO Factor e	0.36			
ISO Factor Y0	1.81	THE TIMKEN COMPANY NORTH CANTON, OHIO USA	Dynamic Radial Rating (Two Rows) 1870000 N Static Radial Rating 2760000 N	
ISO Factor Y1	1.85			
ISO Factor Y2	2.76			
Bearing Weight	kg			
Cage Type	EJ			
Cage Material	Steel		FOR DISCUSSION ONLY	
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.				