


The Timken Company

4500 Mt Pleasant St. NW

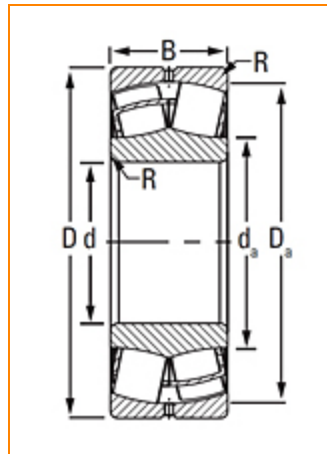
N. Canton, OH 44720

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Part Number 22236EJW33, 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

Design Unit	Metric
d - Bore	180 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22236CJW33

Factors



e - ISO Factor¹ 0.25

10 - ISO Factor² 2.66

Y1 - ISO Factor³	2.72
Y2 - ISO Factor⁴	4.05
Reference Thermal Speed Rating (Grease)	1600 rpm
Reference Thermal Speed Rating (Oil)⁵	1900 rpm
Cg - Geometry Factor⁶	0.0937

Dimensions

D - Outer Diameter	320 mm 12.5984 in
B' - Inner Ring Width	86 mm 3.3858 in
B - Outer Ring Width	86 mm 3.3858 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	215.000 mm 8.5000 in
Da - Outer Ring Backing Diameter	292 mm 11.5000 in

Basic Load Ratings

C0 - Static Radial Rating	1700000 N 382000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1340000 N 301000 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.

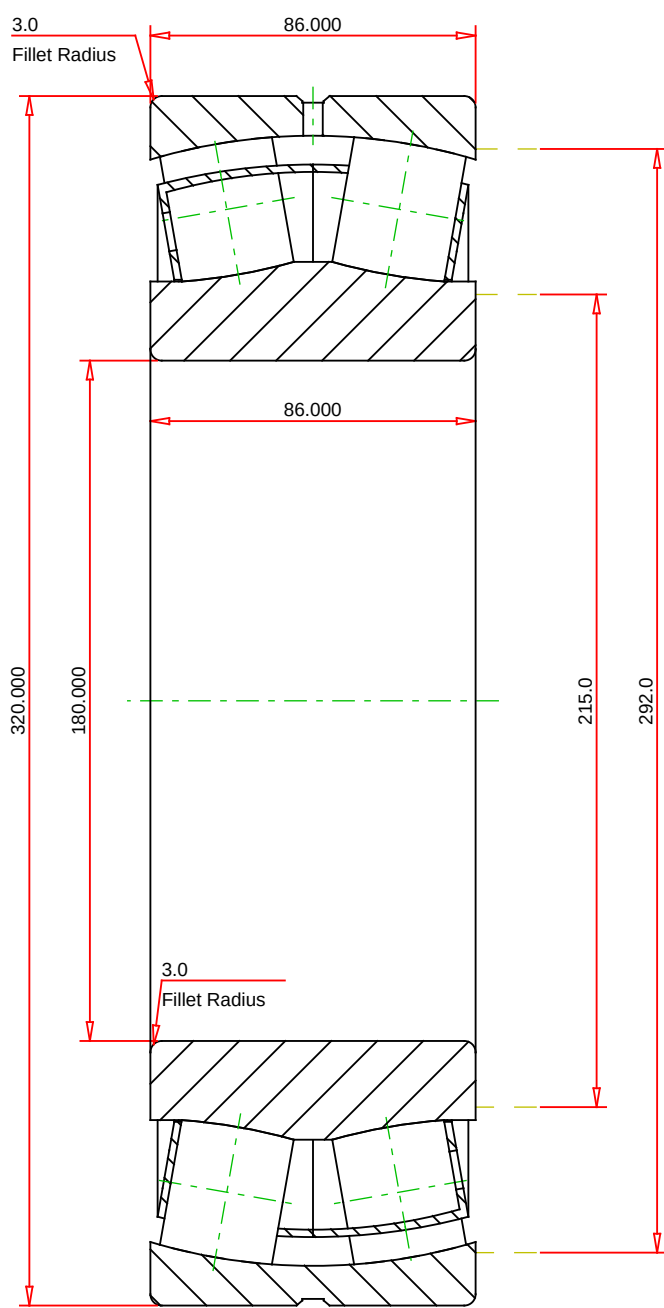
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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 Row19 ISO Factor e0.25 ISO Factor Y02.66 ISO Factor Y12.72 ISO Factor Y24.05 Bearing Weightkg Cage TypeEJ Cage MaterialSteel	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	22236EJW33 SRB ASSEMBLY Dynamic Radial Rating (Two Rows)1340000N Static Radial Rating1700000N
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