


The Timken Company

4500 Mt Pleasant St. NW

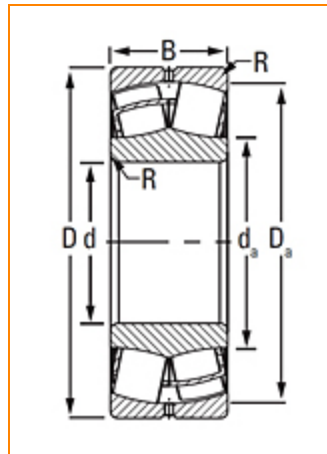
N. Canton, OH 44720

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Part Number 22240EJW33C3, 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	087796313064
Design Unit	Metric
d - Bore	200 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22240CJW33C3

Factors


 e - ISO Factor¹

0.27

Y0 - ISO Factor²	2.44
Y1 - ISO Factor³	2.5
Y2 - ISO Factor⁴	3.72
Reference Thermal Speed Rating (Grease)	1500 rpm
Reference Thermal Speed Rating (Oil)⁵	1700 rpm
Cg - Geometry Factor⁶	0.0992

Dimensions

D - Outer Diameter	360 mm 14.1732 in
B' - Inner Ring Width	98 mm 3.8583 in
B - Outer Ring Width	98 mm 3.8583 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	236.000 mm 9.300 in
Da - Outer Ring Backing Diameter	323.000 mm 12.7000 in

Basic Load Ratings

C0 - Static Radial Rating	2010000 N 452000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1580000 N 356000 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.

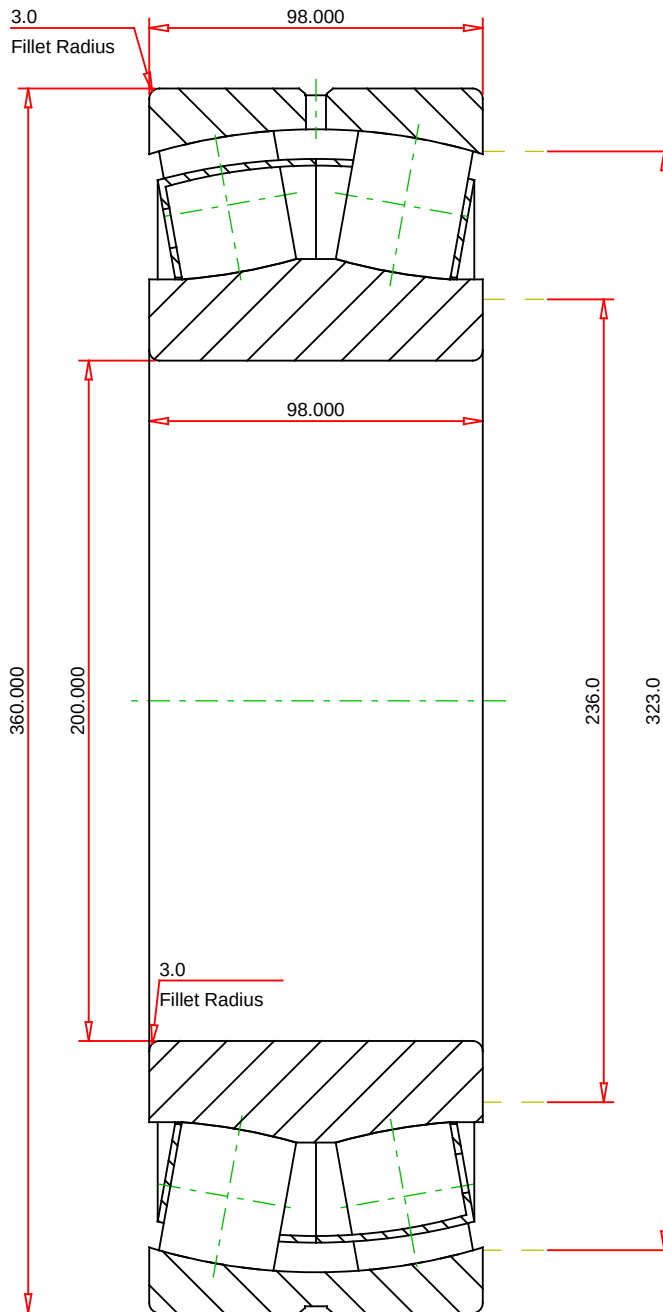
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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 e0.27 ISO Factor Y02.44 ISO Factor Y12.50 ISO Factor Y23.72 Bearing Weightkg Cage TypeEJ Cage MaterialSteel	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	22240EJW33C3 SRB ASSEMBLY
	Dynamic Radial Rating (Two Rows)1580000 Static Radial Rating2010000	N 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.

FOR DISCUSSION ONLY