


The Timken Company

4500 Mt Pleasant St. NW

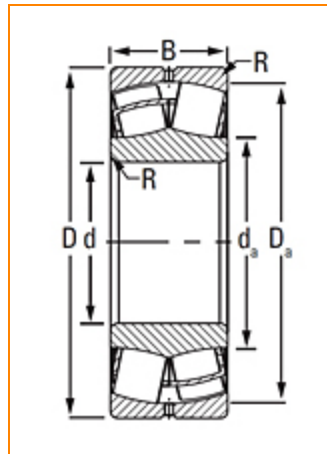
N. Canton, OH 44720

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Part Number 22228EJW33C4, 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	087796025554
Design Unit	Metric
d - Bore	140 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22228CJW33C4

Factors


 e - ISO Factor¹

0.25

Y0 - ISO Factor²	2.61
Y1 - ISO Factor³	2.67
Y2 - ISO Factor⁴	3.98
Reference Thermal Speed Rating (Grease)	2200 rpm
Reference Thermal Speed Rating (Oil)⁵	2600 rpm
Cg - Geometry Factor⁶	0.0856

Dimensions

D - Outer Diameter	250 mm 9.8425 in
B' - Inner Ring Width	68 mm 2.6772 in
B - Outer Ring Width	68 mm 2.6772 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	167 mm 6.6000 in
Da - Outer Ring Backing Diameter	228.000 mm 9.000 in

Basic Load Ratings

C0 - Static Radial Rating	1060000 N 237000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	863000 N 194000 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.

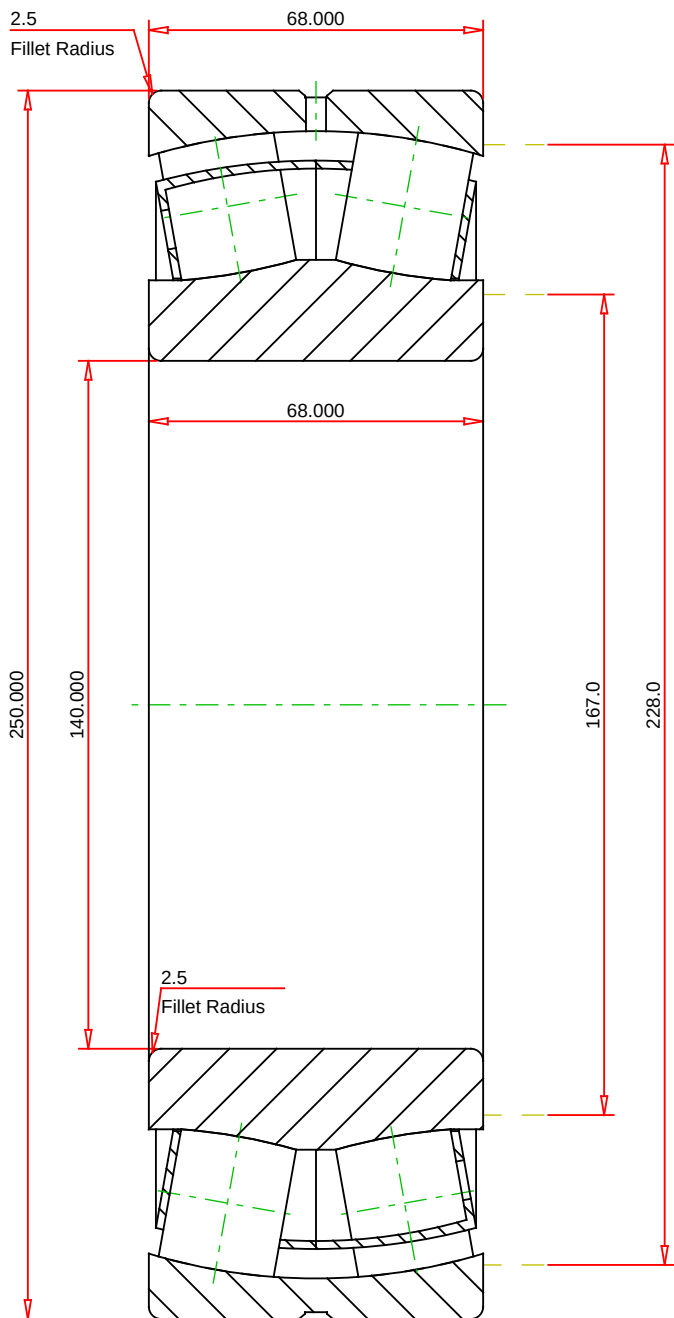
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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 Y02.61 ISO Factor Y12.67 ISO Factor Y23.98 Bearing Weightkg Cage TypeEJ Cage MaterialSteel	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	22228EJW33C4 SRB ASSEMBLY	
		Dynamic Radial Rating (Two Rows)	863000N
		Static Radial Rating	1060000N

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