



The Timken Company

4500 Mt Pleasant St. NW

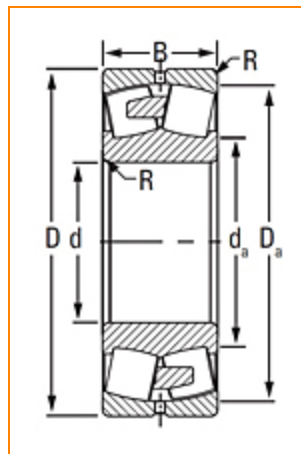
N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 22232KEMW33C3, Spherical Roller Bearings - Brass 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	160 mm
Bore_Taper	1/12
Cage Type	EM
Cage Material	Brass
Superseded Part	22232KYMW33C3

Dimensions

D - Outer Diameter	290 mm 11.4173 in
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B' - Inner Ring Width	80 mm 3.1496 in
B - Outer Ring Width	80 mm 3.1496 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2.5 mm 0.100 in
r - Outer Ring "To Clear" Radius²	2.5 mm 0.1 in
da - Inner Ring Backing Diameter	192.000 mm 7.5000 in
Da - Outer Ring Backing Diameter	264.000 mm 10.4000 in

Basic Load Ratings

C0 - Static Radial Rating	1370000 N 309000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1120000 N 253000 lbf

Factors

e - ISO Factor³	0.26
Y0 - ISO Factor⁴	2.57
Y1 - ISO Factor⁵	2.62
Y2 - ISO Factor⁶	3.91
Reference Thermal Speed Rating (Grease)	1900 rpm

Reference Thermal Speed Rating (Oil)⁷	2200 rpm
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Cg - Geometry Factor⁸	0.0931
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¹ Maximum housing fillet radius that bearing corners will clear.

² Maximum shaft fillet radius that bearing corners will clear.

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

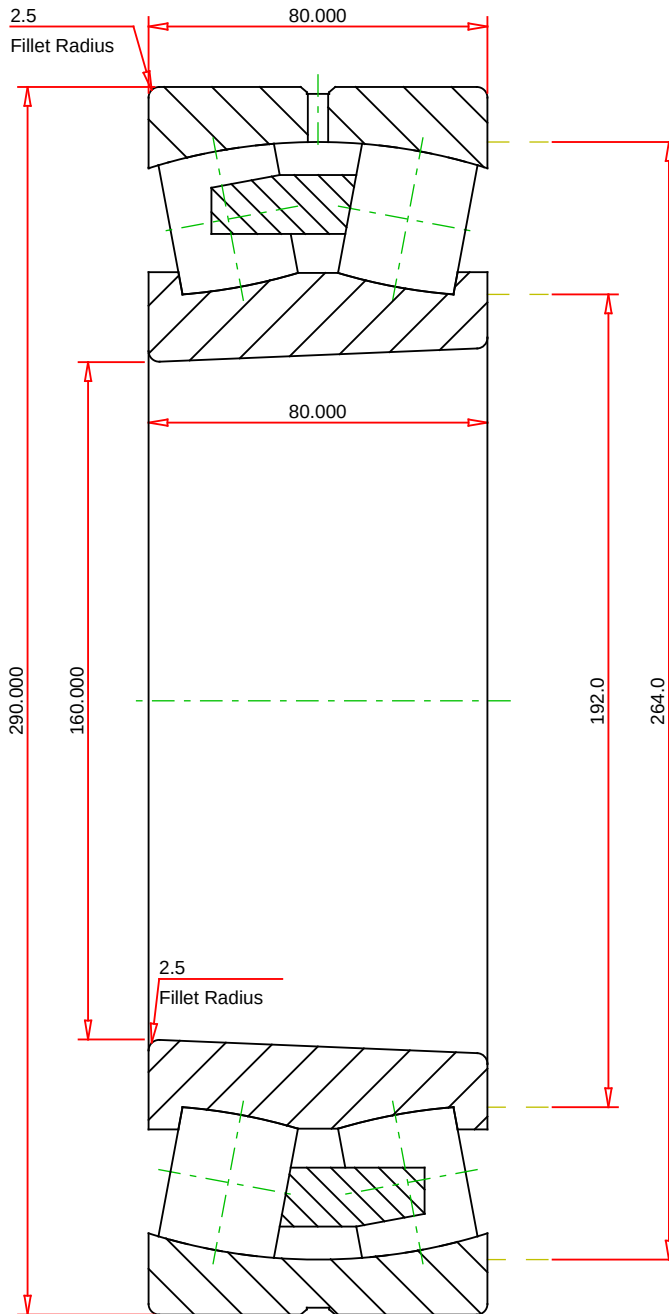
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row18 ISO Factor e0.26 ISO Factor Y02.57 ISO Factor Y12.62 ISO Factor Y23.91 Bearing Weight23.0 kg Cage TypeEM Cage MaterialBrass Bore Taper1/12	TIMKEN®		22232KEMW33C3 SRB ASSEMBLY	
	THE TIMKEN COMPANY NORTH CANTON, OHIO USA		Dynamic Radial Rating (Two Rows)1120000 N Static Radial Rating1370000 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