



The Timken Company

4500 Mt Pleasant St. NW

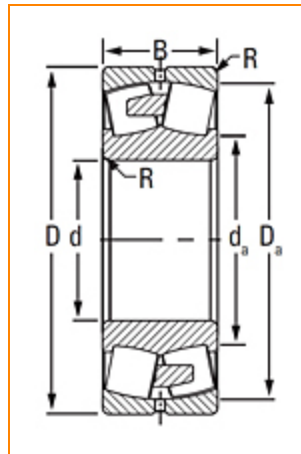
N. Canton, OH 44720

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Part Number 22322KEMW33C3, 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	110 mm
Bore_Taper	1/12
Cage Type	EM
Cage Material	Brass
Superseded Part	22322KYMW33C3

Dimensions



D - Outer Diameter

240 mm

9.4488 in

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	144.0 mm 5.7000 in
Da - Outer Ring Backing Diameter	215.000 mm 8.5000 in

Basic Load Ratings

C0 - Static Radial Rating	1050000 N 236000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	949000 N 213000 lbf

Factors

e - ISO Factor³	0.32
Y0 - ISO Factor⁴	2.04
Y1 - ISO Factor⁵	2.08
Y2 - ISO Factor⁶	3.1
Reference Thermal Speed Rating (Grease)	2200 rpm

Reference Thermal Speed Rating (Oil)⁷	2500 rpm
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Cg - Geometry Factor⁸	0.0792
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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.

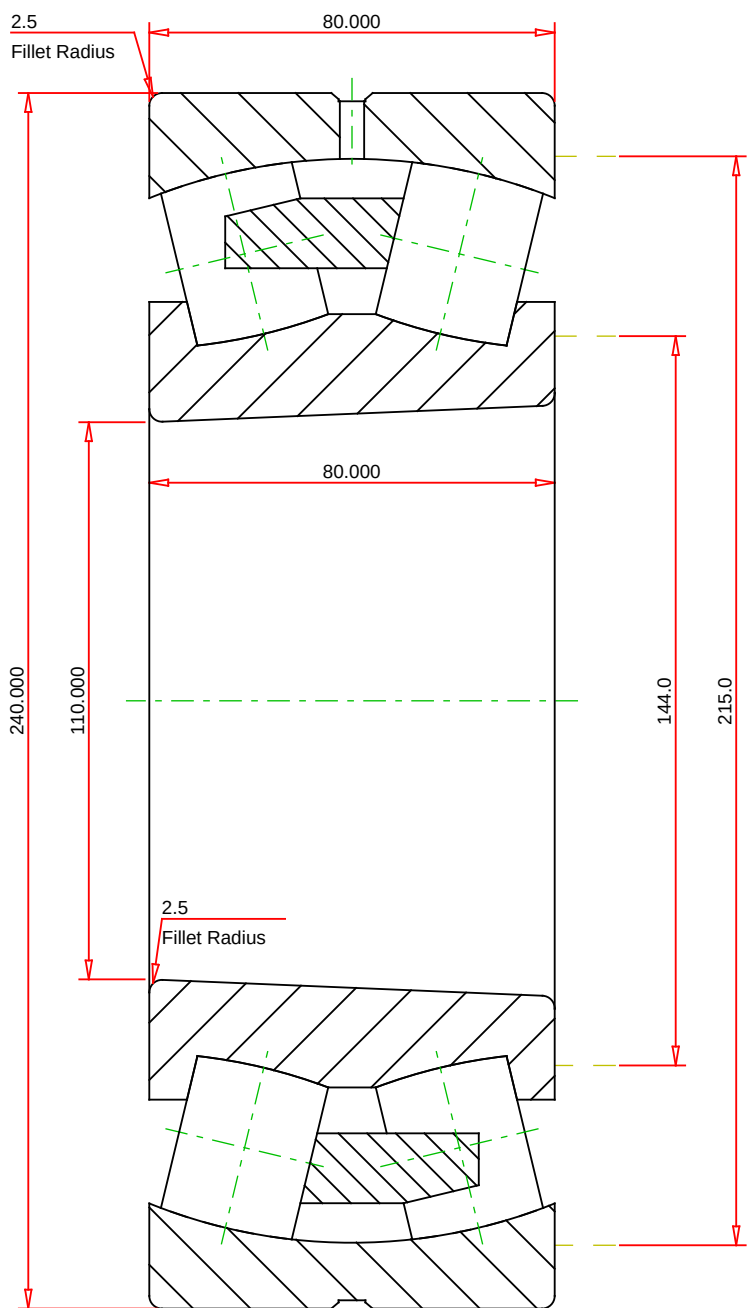
⁴ These factors apply for both inch and metric calculations. See engineering

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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 Row15 ISO Factor e0.32 ISO Factor Y02.04 ISO Factor Y12.08 ISO Factor Y23.10 Bearing Weight17.8 kg Cage TypeEM Cage MaterialBrass Bore Taper1/12		TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA		22322KEMW33C3 SRB ASSEMBLY	
				Dynamic Radial Rating (Two Rows)	949000 N
				Static Radial Rating	1050000 N