


The Timken Company

4500 Mt Pleasant St. NW

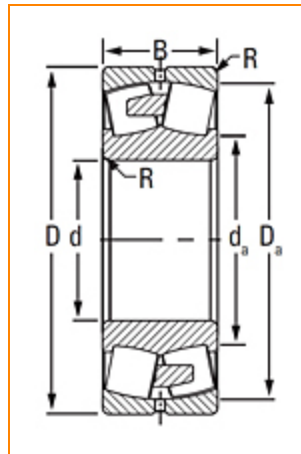
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Part Number 22217KEMW33C3, Spherical Roller Bearings - Brass Cage

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	85 mm
Bore_Taper	1/12
Cage Type	EM
Cage Material	Brass
Superseded Part	22217KYMW33C3

Dimensions


D - Outer Diameter

150 mm

5.9055 in

B' - Inner Ring Width	36 mm 1.4173 in
B - Outer Ring Width	36 mm 1.4173 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2 mm 0.080 in
r - Outer Ring "To Clear" Radius²	2 mm 0.08 in
da - Inner Ring Backing Diameter	101.000 mm 4.000 in
Da - Outer Ring Backing Diameter	139.000 mm 5.500 in

Basic Load Ratings

C0 - Static Radial Rating	302000 N 67900 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	286000 N 64200 lbf

Factors

e - ISO Factor³	0.22
Y0 - ISO Factor⁴	3
Y1 - ISO Factor⁵	3.07
Y2 - ISO Factor⁶	4.57
Reference Thermal Speed Rating (Grease)	3500 rpm

Reference Thermal Speed Rating (Oil)⁷	4200 rpm
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Cg - Geometry Factor⁸	0.0595
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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

⁵ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁶ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.

