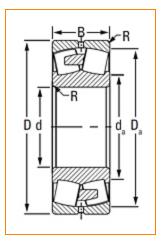
TINKENThe Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • Web site: www.timken.com

Part Number 22216KEMW33C3, 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.





Specifications | Dimensions | Abutment and Fillet Dimensions | Basic Load Ratings | Factors

Specifications –				
	Design Unit	N d = t = : =		
	Design Unit	Metric		
	d - Bore	80 mm		
	Bore_Taper	1/12		
	Cage Type	EM		
	Cage Material	Brass		
	Superseded Part	22216KYMW33C3		

Dimensions



140 mm 5.5118 in

	B' - Inner Ring Width	33 mm 1.2992 in			
	B - Outer Ring Width	33 mm 1.2992 in			
Abutment and Fillet Dimensions –					
	R - Inner Ring "To Clear" Radius ¹	2 mm 0.080 in			
	r - Outer Ring "To Clear" Radius ²	2 mm 0.08 in			
	da - Inner Ring Backing Diameter	95 mm 3.700 in			
	Da - Outer Ring Backing Diameter	129 mm 5.100 in			
Basic Load Ratings					
	C0 - Static Radial Rating	263000 N 59200 lbf			

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C1(2) - Dynamic Radial Rating	245000 N
(Two-Rows)	55100 lbf

Factors

actors			
e - ISO Factor ³	0.22		
Y0 - ISO Factor ⁴	3.07		
Y1 - ISO Factor ⁵	3.14		
Y2 - ISO Factor ⁶	4.67		
Reference Thermal Speed Rating (Grease)	3600 rpm		

Reference Thermal Speed Rating	4400 rpm
(Oil) ⁷	

Cg - Geometry Factor⁸

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

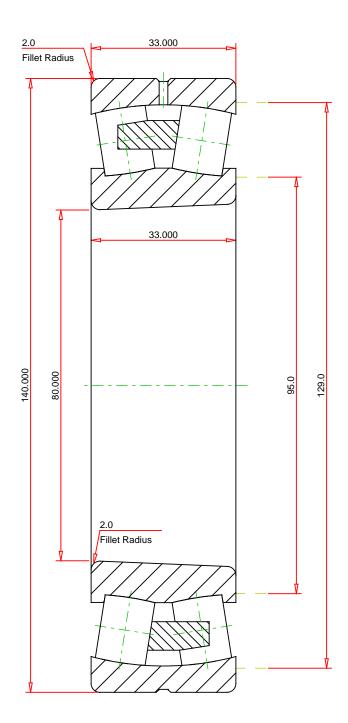
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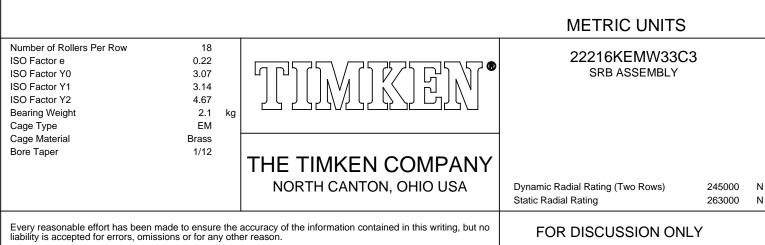
⁵ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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 a3I.





FOR DISCUSSION ONLY