

The Timken Company

4500 Mt Pleasant St. NW N. Canton, OH 44720

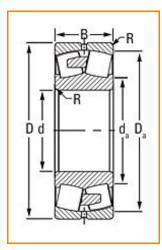
Phone: (234) 262-3000

E-Mail: <u>CustomerCAD@timken.com</u> • Web site: <u>www.timken.com</u>

Timken Part Number 22244KEMBW40IW534C4, 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.





<u>Specifications</u> | <u>Dimensions</u> | <u>Abutment and Fillet Dimensions</u> | <u>Basic Load Ratings</u> | <u>Factors</u>

Specifications –				
	Design Unit	METRIC		
	Bore Taper	1/12		
	Bearing Weight	59.40 Kg 130.70 lb		
	Cage Type	EMB		
	UPC Code	87796026117		
	Cage Material	BRASS		
	Superseded Part	22244KYMBW40IW534C4		

Dimensions	-

d - Bore	220.000 mm 8.6614 in
D - Outer Diameter	400.000 mm 15.7480 in
B' - Inner Ring Width	108 mm 4.252 in
B - Outer Ring Width	108.000 mm 4.2520 in

Abutment and Fillet Dimensions		-
R - Inner Ring "To Clear" Radius ¹	3.000 mm 0.120 in	
r - Outer Ring "To Clear" Radius ²	3.000 mm 0.120 in	
da - Inner Ring Backing Diameter	261.000 mm 10.300 in	
Da - Outer Ring Backing Diameter	359.000 mm 14.100 in	

Bas	ic Load Ratings		-
	C0 - Static Radial Rating	2310000 N 520000 lbf	
	C1(2) - Dynamic Radial Rating (Two-Rows)	1850000 N 415000 lbf	

Fac	tors		-
	e - ISO Factor ³	0.27	
	Y0 - ISO Factor ⁴	2.51	

Y1 - ISO Factor ⁵	3.73
Y2 - ISO Factor ⁶	2.45
Reference Thermal Speed Rating (Grease)	1300
Reference Thermal Speed Rating (Oil) ⁷	1500
Cg - Geometry Factor ⁸	0.1057

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.

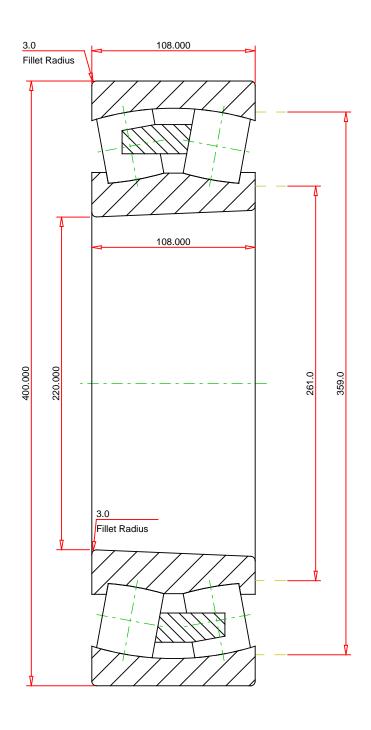
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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a31.



METRIC UNITS

Number of Rollers Per Row	18	
ISO Factor e	0.27	
ISO Factor Y0	2.51	
ISO Factor Y1	3.73	
ISO Factor Y2	2.45	
Bearing Weight	59.4	kg
Cage Type	EMB	
Cage Material	BRASS	
Bore Taper	1/12	

THE TIMKEN COMPANY NORTH CANTON, OHIO USA

22244KEMBW40IW534C4 SRB ASSEMBLY

Dynamic Radial Rating (Two Rows) Static Radial Rating 1850000 N 2310000 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