

The Timken Company 4500 Mt Pleasant St. NW N. Canton, OH 44720

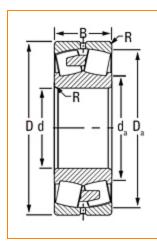
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Part Number 239/670YMBW509C08, Spherical Roller Bearings - Brass Cage

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	
	Bearing Weight	306.700 Kg 674.70 lb	
	Cage Type	YMB	
	UPC Code	087796236462	
	Cage Material	Brass	

Dir	mensions		-
	d - Bore	670.000 mm 26.3780 in	
	D - Outer Diameter	900.000 mm	

	33.433U III
B' - Inner Ring Width	170 mm 6.693 in
B - Outer Ring Width	170.000 mm 6.6930 in

Abutment and Fillet Dimensions -			
	R - Inner Ring "To Clear" Radius ¹	5.000 mm 0.200 in	
	r - Outer Ring "To Clear" Radius ²	5.000 mm 0.200 in	
	da - Inner Ring Backing Diameter	727.000 mm 28.600 in	
	Da - Outer Ring Backing Diameter	851.000 mm 33.500 in	

Basic Load Ratings -			
		11000000 N	
	CO - Static Radial Rating	2480000 lbf	
	C1(2) - Dynamic Radial Rating (Two-Rows)	5100000 N 1150000 lbf	

Fac	Factors			
	e - ISO Factor ³	0.16		
	Y0 - ISO Factor ⁴	4.06		
	Y1 - ISO Factor ⁵	4.15		
	Y2 - ISO Factor ⁶	6.18		
	Reference Thermal Speed Rating	250		

(Grease)	SUU
Reference Thermal Speed Rating (Oil) ⁷	410
Cg - Geometry Factor ⁸	0.1238

 $^{^{1}}$ 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.

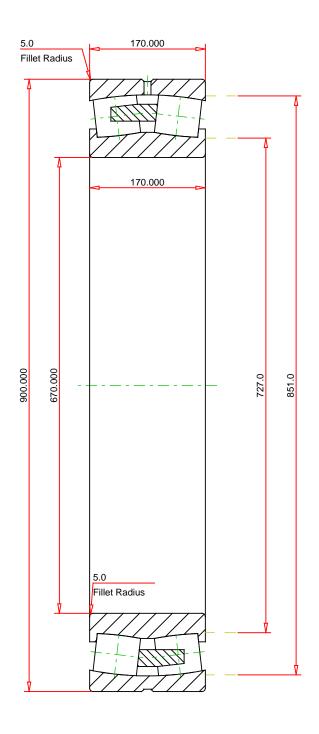
 $^{^4}$ These factors apply for both inch and metric calculations. See engineering

 $^{^{5}}$ 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.



METRIC UNITS

Number of Rollers Per Row	37		
ISO Factor e	0.16		
ISO Factor Y0	4.06		
ISO Factor Y1	4.15		
ISO Factor Y2	6.18		
Bearing Weight	306.7	kg	
Cage Type	YMB		
Cage Material	Brass		



THE TIMKEN COMPANY NORTH CANTON, OHIO USA

239/670YMBW509C08 SRB ASSEMBLY

Dynamic Radial Rating (Two Rows) Static Radial Rating

5100000 11000000

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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