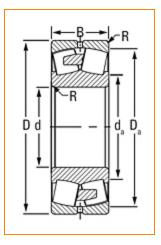
## TINKENThe Timken Company<br/>4500 Mt Pleasant St. NW<br/>N. Canton, OH 44720<br/>Phone: (234) 262-3000<br/>E-Mail: CustomerCAD@timken.com • Web site: www.timken.com

## Part Number 22313EMW800C4, 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	Metric		
	d - Bore	65 mm		
	Cage Type	EM		
	Cage Material	Brass		
	Superseded Part	22313YMW800C4		

## Dimensions

D - Outer Diameter	139.993 mm 5.5115 in
' - Inner Ring Width	48 mm 1.8898 in

B - Outer Ring Width

Abutment and Fillet Dimensions				
	R - Inner Ring "To Clear" Radius <sup>1</sup>	2 mm 0.080 in		
	r - Outer Ring "To Clear" Radius <sup>2</sup>	2 mm 0.08 in		
	da - Inner Ring Backing Diameter	84 mm 3.300 in		
	Da - Outer Ring Backing Diameter	127 mm 5.0000 in		
Basic Load Ratings –				
	C0 - Static Radial Rating	346000 N 77800 lbf		

 C1(2) - Dynamic Radial Rating
 344000 N

 (Two-Rows)
 77400 lbf

## Factors

e - ISO Factor <sup>3</sup>	0.33
Y0 - ISO Factor <sup>4</sup>	2
Y1 - ISO Factor <sup>5</sup>	2.05
Y2 - ISO Factor <sup>6</sup>	3.05
Reference Thermal Speed Rating (Grease)	3900 rpm

Reference Thermal Speed Rating (Oil) <sup>7</sup>	4600 rpm
Cg - Geometry Factor <sup>8</sup>	0.0558

<sup>1</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>2</sup> Maximum shaft fillet radius that bearing corners will clear.

<sup>3</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>4</sup> These factors apply for both inch and metric calculations. See engineering

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

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

<sup>7</sup> See thermal speed ratings in the engineering section.

<sup>8</sup> Geometry constant for Lubrication Life Adjustment Factor a3I.

