


The Timken Company

4500 Mt Pleasant St. NW

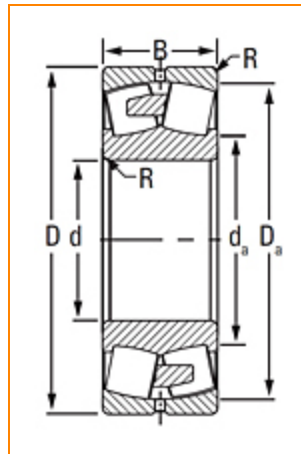
N. Canton, OH 44720

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Part Number 23148EMBW33, 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	240 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	23148YMBW33

Dimensions

D - Outer Diameter	400 mm 15.748 in
 - Inner Ring Width	128 mm 5.0394 in

B - Outer Ring Width	128 mm 5.0394 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	3 mm 0.120 in
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r - Outer Ring "To Clear" Radius²	3 mm 0.12 in
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da - Inner Ring Backing Diameter	276.000 mm 10.9000 in
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Da - Outer Ring Backing Diameter	364 mm 14.3000 in
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Basic Load Ratings

C0 - Static Radial Rating	3180000 N 714000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	2200000 N 495000 lbf
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Factors

e - ISO Factor³	0.3
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Y0 - ISO Factor⁴	2.23
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Y1 - ISO Factor⁵	2.28
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Y2 - ISO Factor⁶	3.4
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Reference Thermal Speed Rating (Grease)	930 rpm
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Reference Thermal Speed Rating (Oil)⁷	1100 rpm
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Cg - Geometry Factor⁸

0.1105

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.

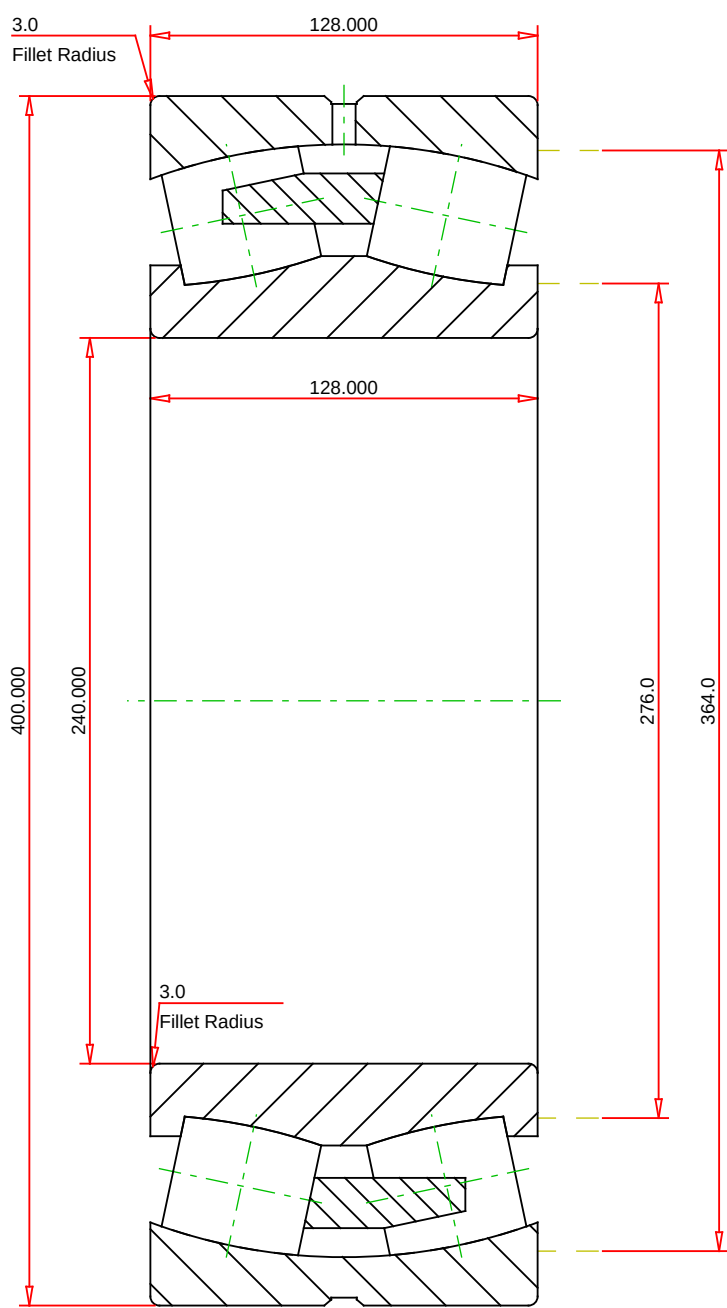
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a_3 .



METRIC UNITS

Number of Rollers Per Row	21	kg TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	23148EMBW33		
ISO Factor e	0.30		SRB ASSEMBLY		
ISO Factor Y0	2.23				
ISO Factor Y1	2.28				
ISO Factor Y2	3.40				
Bearing Weight	65.0				
Cage Type	EMB				
Cage Material	Brass				
			Dynamic Radial Rating (Two Rows)	2200000	N
			Static Radial Rating	3180000	N