


The Timken Company

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Part Number 23064EMBW525C08, 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	320.000 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	23064YMBW525C08

Dimensions

D - Outer Diameter	480 mm 18.898 in
 - Inner Ring Width	121 mm 4.764 in

B - Outer Ring Width	121 mm 4.7640 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	355.000 mm 14.000 in
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Da - Outer Ring Backing Diameter	444.000 mm 17.5000 in
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Basic Load Ratings

C0 - Static Radial Rating	3880000 N 873000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	2410000 N 543000 lbf
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Factors

e - ISO Factor³	0.23
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Y0 - ISO Factor⁴	2.86
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Y1 - ISO Factor⁵	2.93
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Y2 - ISO Factor⁶	4.36
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Reference Thermal Speed Rating (Grease)	880 rpm
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Reference Thermal Speed Rating (Oil)⁷	1000 rpm
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Cg - Geometry Factor⁸	0.1278
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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.

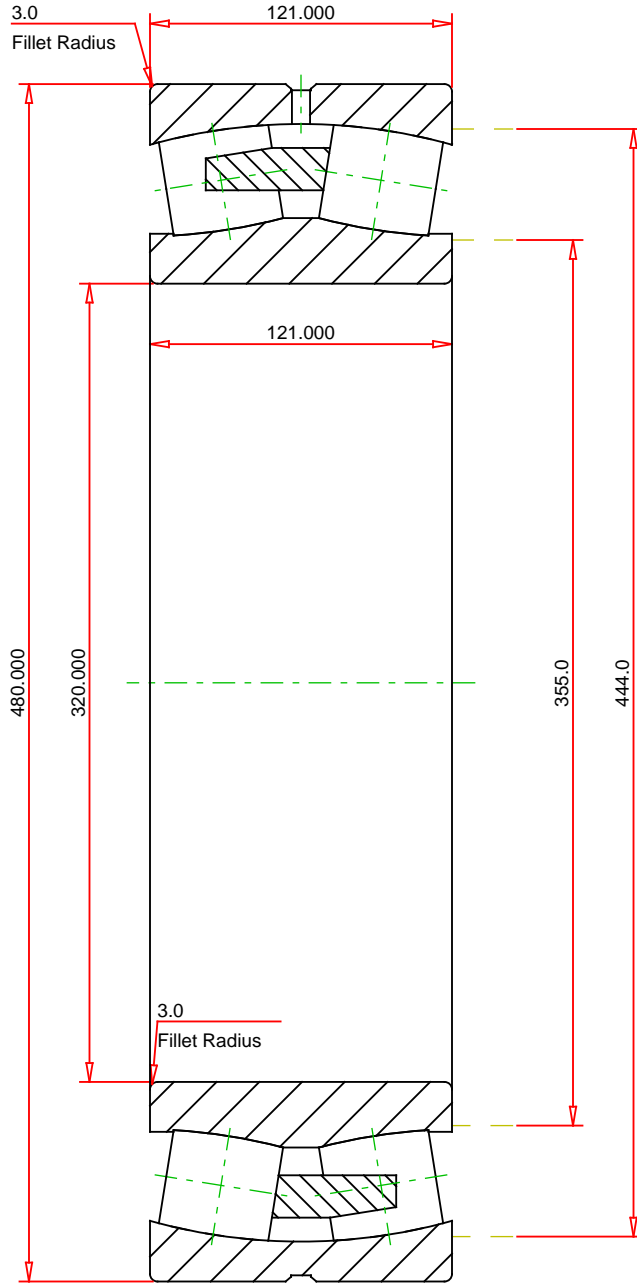
⁴ These factors apply for both inch and metric calculations. See engineering

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

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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	27
ISO Factor e	0.23
ISO Factor Y0	2.86
ISO Factor Y1	2.93
ISO Factor Y2	4.36
Bearing Weight	77.4 kg
Cage Type	EMB
Cage Material	Brass

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

23064EMBW525C08
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	2410000	N
Static Radial Rating	3880000	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