



The Timken Company

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Part Number 24048EMBW33C2, 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.




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Specifications

Design Unit	Metric
d - Bore	240 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	24048YMBW33C2

Dimensions

D - Outer Diameter	360 mm 14.1732 in
 - Inner Ring Width	118 mm 4.6457 in

B - Outer Ring Width	118 mm 4.6457 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2.5 mm 0.100 in
r - Outer Ring "To Clear" Radius²	2.5 mm 0.1 in
da - Inner Ring Backing Diameter	265 mm 10.4000 in
Da - Outer Ring Backing Diameter	334 mm 13.100 in

Basic Load Ratings

C0 - Static Radial Rating	2900000 N 652000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1790000 N 403000 lbf

Factors

e - ISO Factor³	0.29
Y0 - ISO Factor⁴	2.26
Y1 - ISO Factor⁵	2.31
Y2 - ISO Factor⁶	3.44
Reference Thermal Speed Rating (Grease)	940 rpm

Reference Thermal Speed Rating (Oil)⁷	1100 rpm
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Cg - Geometry Factor⁸	0.1059
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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.

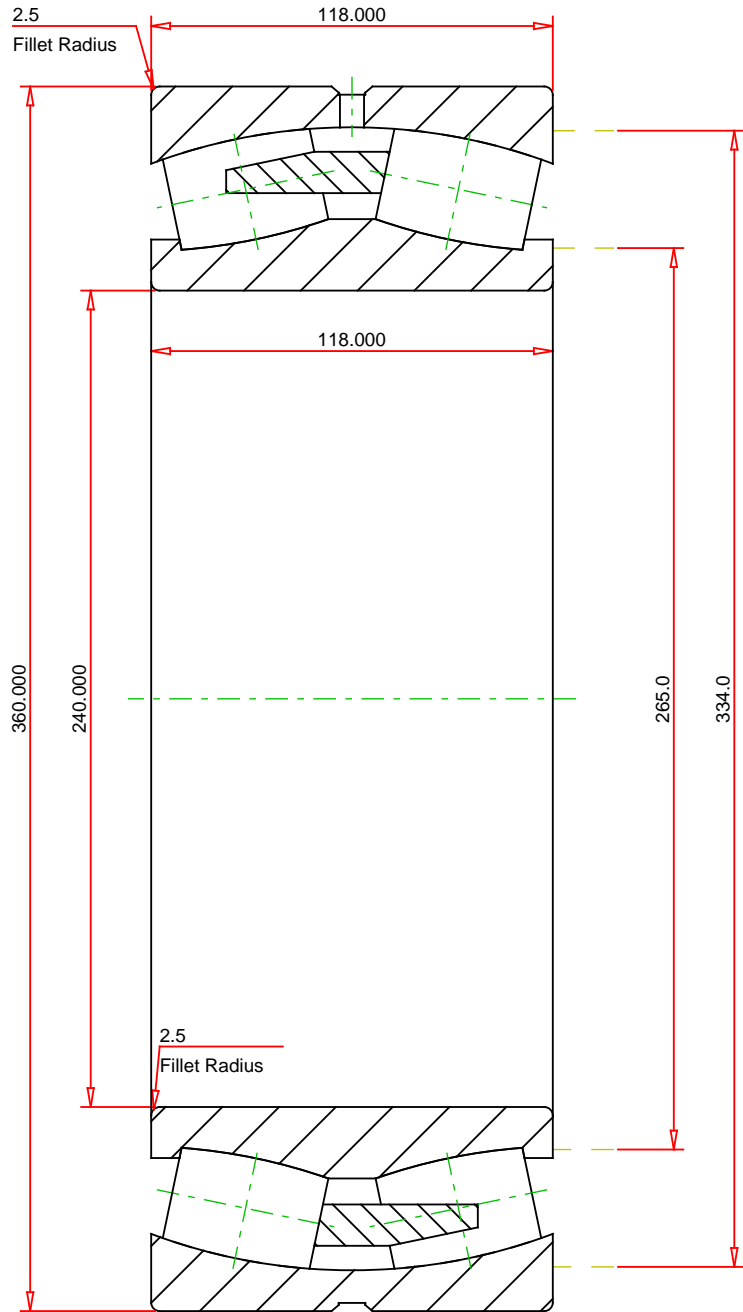
⁴ These factors apply for both inch and metric calculations. See engineering

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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	26
ISO Factor e	0.29
ISO Factor Y0	2.26
ISO Factor Y1	2.31
ISO Factor Y2	3.44
Bearing Weight	41.8 kg
Cage Type	EMB
Cage Material	Brass

TIMKEN®

24048EMBW33C2
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	1790000	N
Static Radial Rating	2900000	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.

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