


The Timken Company

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Part Number 23040EMW33C2, 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	200 mm
Cage Type	EM
Cage Material	Brass
Superseded Part	23040YMW33C2

Dimensions

D - Outer Diameter	310 mm 12.2047 in
 d' - Inner Ring Width	82 mm 3.2283 in

B - Outer Ring Width	82 mm 3.2283 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2 mm 0.080 in
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r - Outer Ring "To Clear" Radius²	2 mm 0.080 in
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da - Inner Ring Backing Diameter	225.000 mm 8.900 in
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Da - Outer Ring Backing Diameter	289.000 mm 11.4000 in
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Basic Load Ratings

C0 - Static Radial Rating	1760000 N 395000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	1230000 N 276000 lbf
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Factors

e - ISO Factor³	0.23
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Y0 - ISO Factor⁴	2.89
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Y1 - ISO Factor⁵	2.95
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Y2 - ISO Factor⁶	4.4
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Reference Thermal Speed Rating (Grease)	1500 rpm
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Reference Thermal Speed Rating (Oil)⁷	1800 rpm
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Cg - Geometry Factor⁸	0.0921
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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.

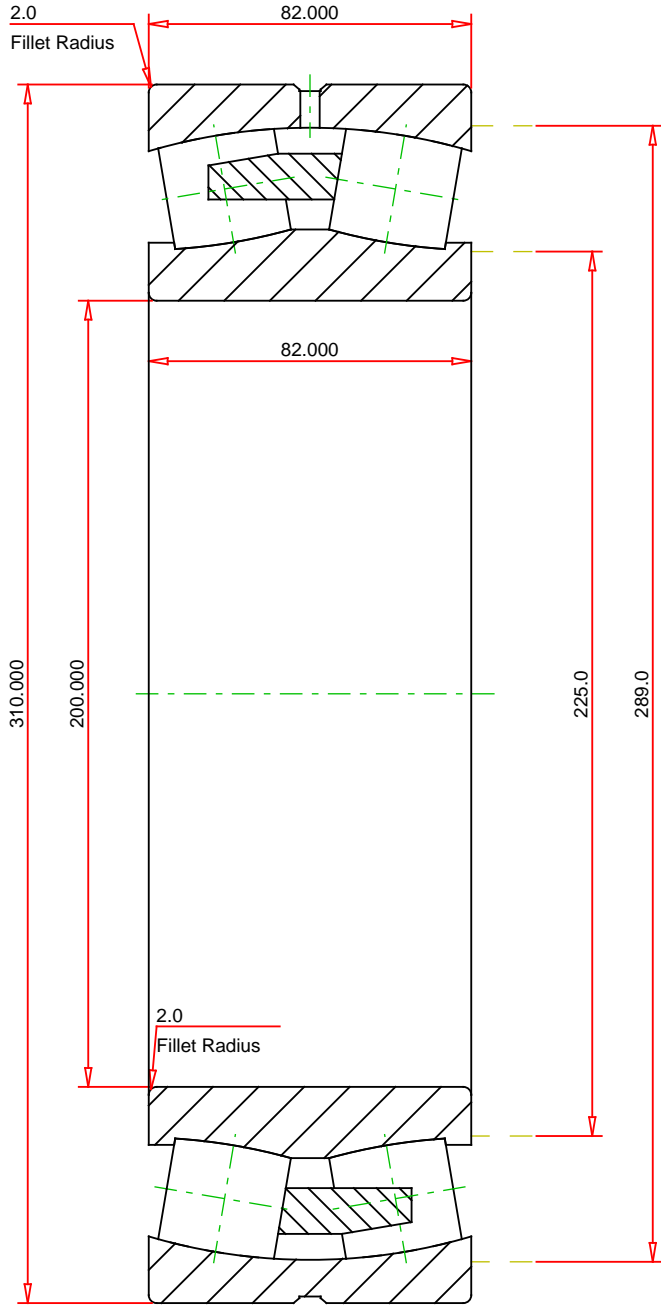
⁴ These factors apply for both inch and metric calculations. See engineering

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	24
ISO Factor e	0.23
ISO Factor Y0	2.89
ISO Factor Y1	2.95
ISO Factor Y2	4.40
Bearing Weight	21.9 kg
Cage Type	EM
Cage Material	Brass

TIMKEN®

23040EMW33C2
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	1230000	N
Static Radial Rating	1760000	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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