


The Timken Company

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Part Number 22322EMW33W800C4, 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	110 mm
Cage Type	EM
Cage Material	Brass
Superseded Part	22322YMW33W800C4

Dimensions

D - Outer Diameter	239.993 mm 9.4485 in
 d' - Inner Ring Width	80 mm 3.1496 in

B - Outer Ring Width	80 mm 3.1496 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	144.0 mm 5.7000 in
Da - Outer Ring Backing Diameter	215.000 mm 8.5000 in

Basic Load Ratings

C0 - Static Radial Rating	1050000 N 236000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	949000 N 213000 lbf

Factors

e - ISO Factor³	0.32
Y0 - ISO Factor⁴	2.04
Y1 - ISO Factor⁵	2.08
Y2 - ISO Factor⁶	3.1
Reference Thermal Speed Rating (Grease)	2200 rpm

Reference Thermal Speed Rating (Oil)⁷	2500 rpm
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Cg - Geometry Factor⁸	0.0792
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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.

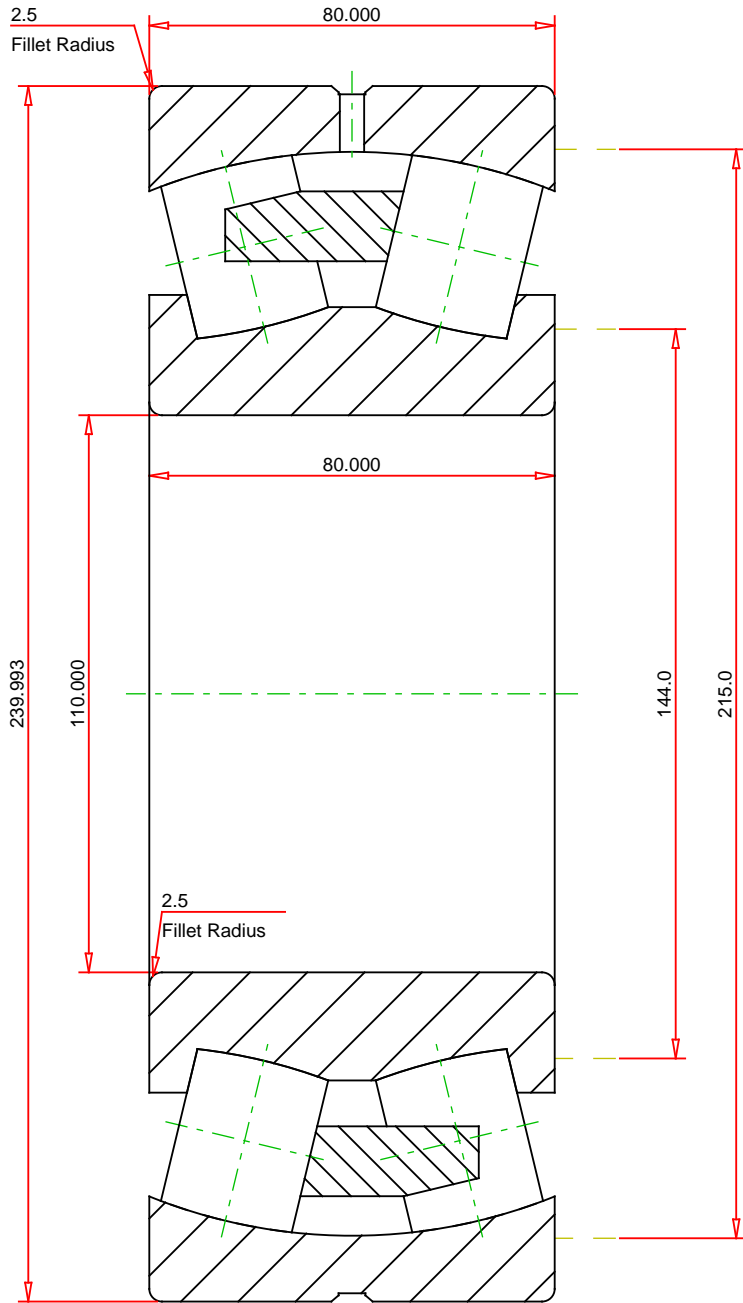
⁴ These factors apply for both inch and metric calculations. See engineering

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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	15
ISO Factor e	0.32
ISO Factor Y0	2.04
ISO Factor Y1	2.08
ISO Factor Y2	3.10
Bearing Weight	17.8 kg
Cage Type	EM
Cage Material	Brass

TIMKEN®

22322EMW33W800C4
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	949000	N
Static Radial Rating	1050000	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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