


The Timken Company

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Part Number 22206EMW33, 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	30 mm
Cage Type	EM
Cage Material	Brass
Superseded Part	22206YMW33

Dimensions

D - Outer Diameter	62 mm 2.4409 in
 d' - Inner Ring Width	20 mm 0.7874 in

B - Outer Ring Width	20 mm 0.7874 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	1 mm 0.040 in
r - Outer Ring "To Clear" Radius²	1 mm 0.04 in
da - Inner Ring Backing Diameter	38.000 mm 1.500 in
Da - Outer Ring Backing Diameter	56 mm 2.200 in

Basic Load Ratings

C0 - Static Radial Rating	64300 N 14400 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	56800 N 12800 lbf

Factors

e - ISO Factor³	0.31
Y0 - ISO Factor⁴	2.1
Y1 - ISO Factor⁵	2.15
Y2 - ISO Factor⁶	3.2
Reference Thermal Speed Rating (Grease)	7900 rpm

Reference Thermal Speed Rating (Oil)⁷	9900 rpm
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Cg - Geometry Factor⁸	0.0368
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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.

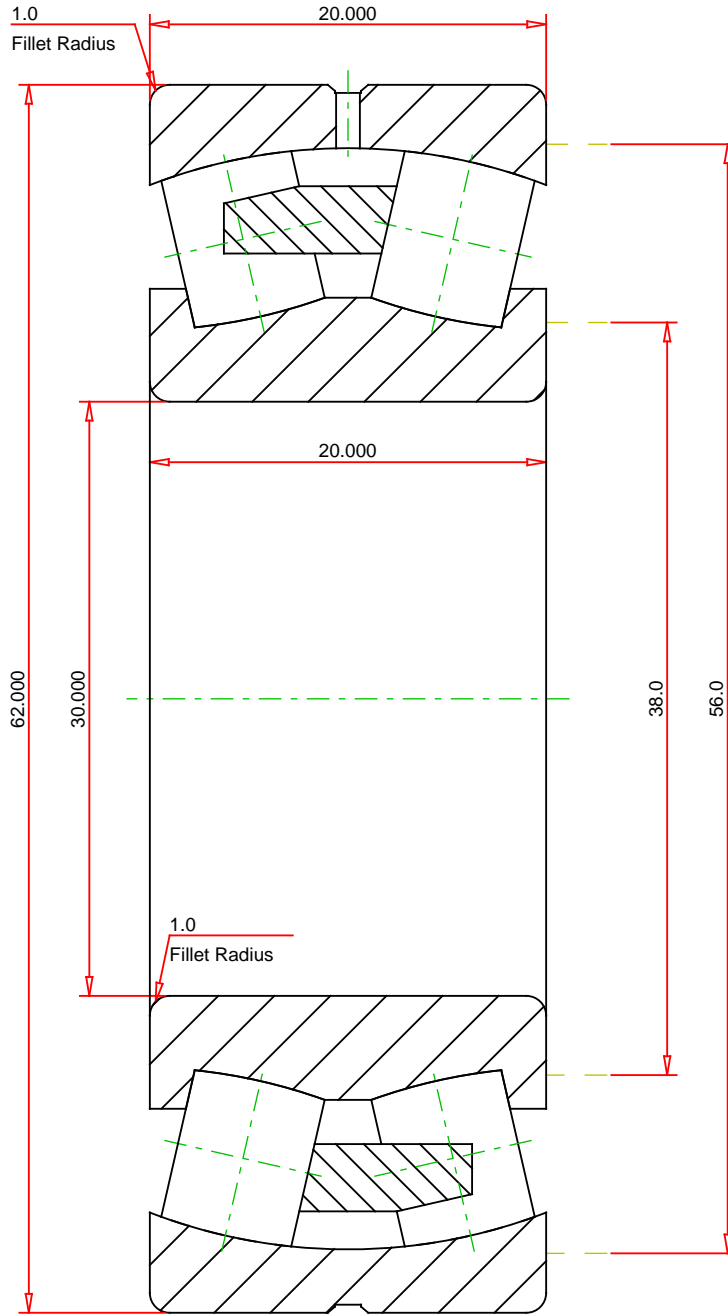
⁴ These factors apply for both inch and metric calculations. See engineering

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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	14
ISO Factor e	0.31
ISO Factor Y0	2.10
ISO Factor Y1	2.15
ISO Factor Y2	3.20
Bearing Weight	0.3 kg
Cage Type	EM
Cage Material	Brass

TIMKEN®

22206EMW33
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	56800	N
Static Radial Rating	64300	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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