



The Timken Company

4500 Mt Pleasant St. NW

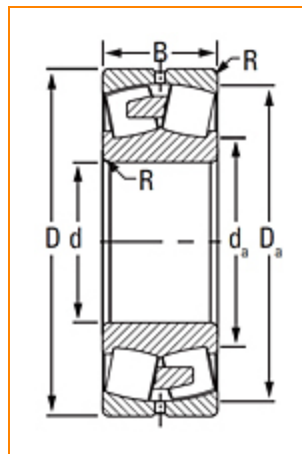
N. Canton, OH 44720

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Part Number 22218KEMW33C3, 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	90 mm
Bore_Taper	1/12
Cage Type	EM
Cage Material	Brass
Superseded Part	22218KYMW33C3

Dimensions



D - Outer Diameter

160 mm

6.2992 in

B' - Inner Ring Width	40 mm 1.5748 in
B - Outer Ring Width	40 mm 1.5748 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2 mm 0.080 in
r - Outer Ring "To Clear" Radius²	2 mm 0.08 in
da - Inner Ring Backing Diameter	105.000 mm 4.2000 in
Da - Outer Ring Backing Diameter	146.000 mm 5.800 in

Basic Load Ratings

C0 - Static Radial Rating	388000 N 87200 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	355000 N 79700 lbf

Factors

e - ISO Factor³	0.23
Y0 - ISO Factor⁴	2.83
Y1 - ISO Factor⁵	2.9
Y2 - ISO Factor⁶	4.31
Reference Thermal Speed Rating (Grease)	3500 rpm

Reference Thermal Speed Rating (Oil)⁷	4300 rpm
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Cg - Geometry Factor⁸	0.0638
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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.

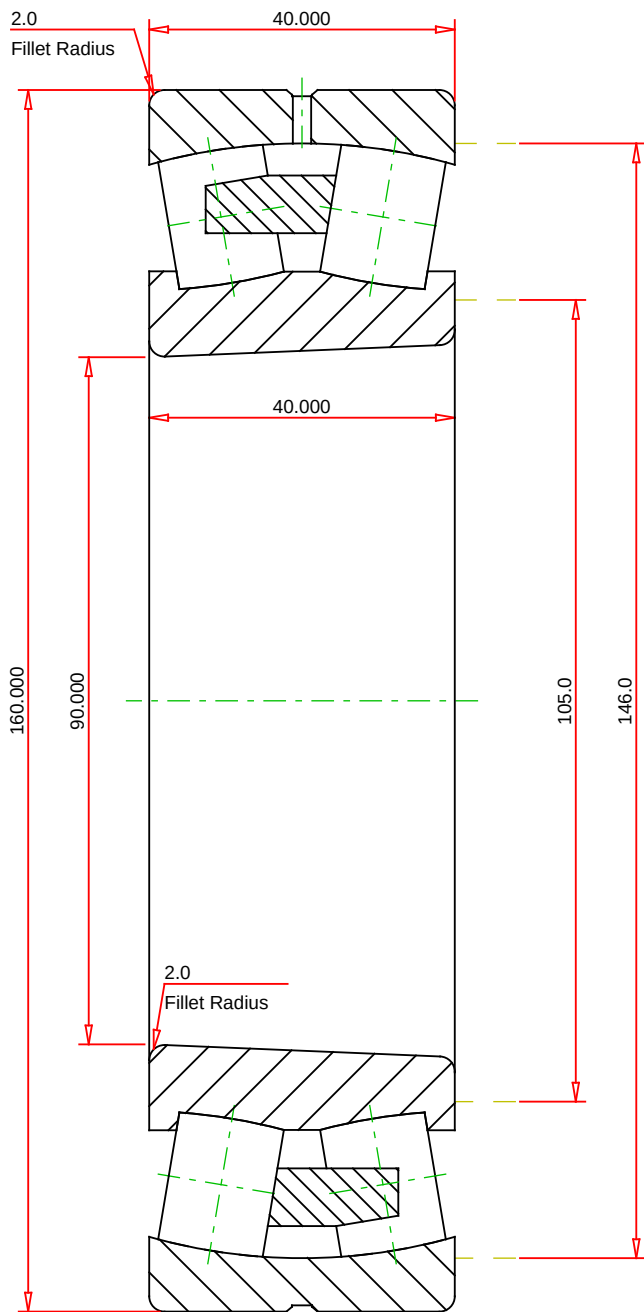
⁴ These factors apply for both inch and metric calculations. See engineering

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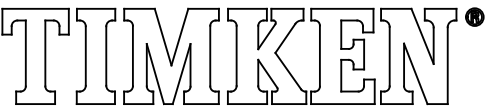
⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	18
ISO Factor e	0.23
ISO Factor Y0	2.83
ISO Factor Y1	2.90
ISO Factor Y2	4.31
Bearing Weight	3.5 kg
Cage Type	EM
Cage Material	Brass
Bore Taper	1/12



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22218KEMW33C3
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	355000	N
Static Radial Rating	388000	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