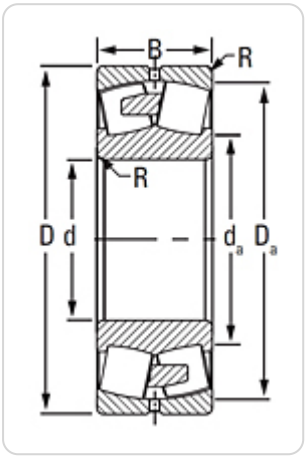
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Part Number 22207EMW33, Spherical Roller Bearings - Brass Cage





Key Features

- Longer bearing life achieved from higher capacity (vs. competitors)
- Longer lubrication life achieved from lower operating temperatures due to reduced internal friction and running torque from cage guided rollers
- Better contaminant purging from slots on cage face helps extend bearing life

- Greater fatigue strength and increased wear resistance provide tougher protection against shock and acceleration loading from a brass cage

Key Dimensions

Bore (d)	35.000 mm
O.D. (D)	72.000 mm 2.8346 in
Width (B)	23 mm 0.9055 in
Dynamic Radial Load Rating - 1M Revs (C1)	87300 N 19600 lbf
e Factor[1]	0.31

Other Dimensions

Max Shaft Fillet Radius[2]	1.00 mm 0.040 in
Shaft Backing Shoulder Diameter	45.000 mm 1.800 in
Housing Backing Shoulder Diameter	65.00 mm 2.600 in
Design Unit	Metric

Ratings

Static Radial Load Rating (C0)	82200 N 18500 lbf
Thermal Reference Speed - Grease	7100 rpm
Thermal Reference Speed - Oil[3]	8800 rpm

Factors

Y0 Factor[4]	2.16
Y1 Factor [5]	2.21
Y2 Factor [6]	3.29
Geometry Factor (Cg) [7]	0.041

[1] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[2] Maximum housing fillet radius that bearing corners will clear.

[3] See thermal speed ratings in the engineering section.

[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.

[6] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[7] Geometry constant for Lubrication Life Adjustment Factor a3l.