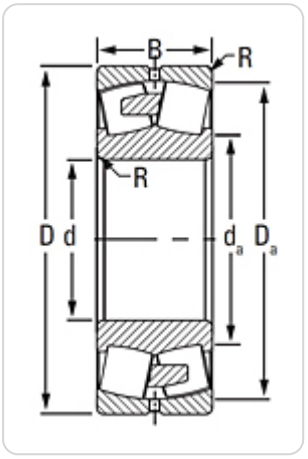
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Part Number 22214EMC3, Spherical Roller Bearings - Brass Cage





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)	70 mm
O.D. (D)	125 mm 4.9213 in
Width (B)	31 mm 1.2205 in
Dynamic Radial Load Rating - 1M Revs (C1)	205000 N 46000 lbf
e Factor[1]	0.23

Other Dimensions

Max Shaft Fillet Radius[2]	1.50 mm 0.060 in
Shaft Backing Shoulder Diameter	84 mm 3.300 in
Housing Backing Shoulder Diameter	114.000 mm 4.500 in
Design Unit	Metric

Ratings

Static Radial Load Rating (C0)	219000 N 49200 lbf
Thermal Reference Speed - Grease	4000 rpm
Thermal Reference Speed - Oil[3]	5000 rpm

Factors

Y0 Factor[4]	2.84
Y1 Factor [5]	2.9
Y2 Factor [6]	4.32
Geometry Factor (Cg) [7]	0.0552

[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.