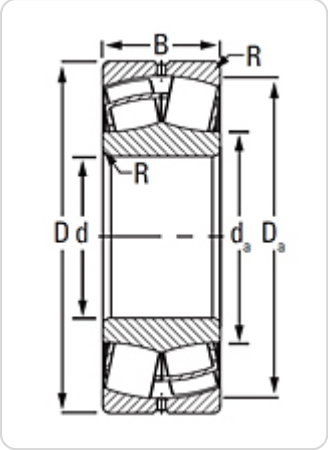
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number 22212EJC3, Spherical Roller Bearings - Steel 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 hardened steel cage

Key Dimensions

UPC Code	087796135536
Bore (d)	60 mm
O.D. (D)	110.000 mm 4.3307 in
Width (B)	28 mm 1.1024 in
Dynamic Radial Load Rating - 1M Revs (C1)	169000 N 38100 lbf

e Factor[1]	0.24

Other Dimensions

Max Shaft Fillet Radius[2]	1.50 mm 0.060 in
Shaft Backing Shoulder Diameter	72 mm 2.800 in
Housing Backing Shoulder Diameter	100.0 mm 4.000 in
Design Unit	Metric

Ratings

Static Radial Load Rating (C0)	174000 N 39000 lbf
Thermal Reference Speed - Oil[3]	5500 rpm
Thermal Reference Speed - Grease	4500 rpm

Factors

Y0 Factor[4]	2.78
Y1 Factor [5]	2.84
Y2 Factor[6]	4.23
Geometry Factor (Cg) [7]	0.0551

[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.