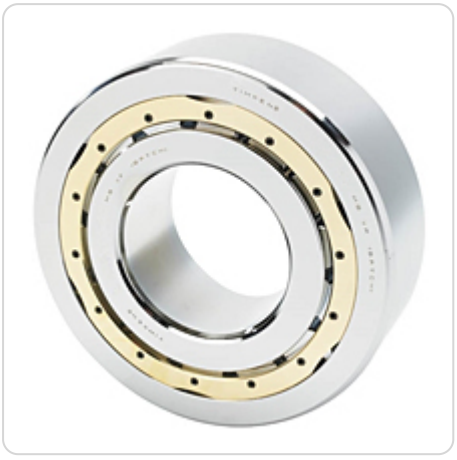
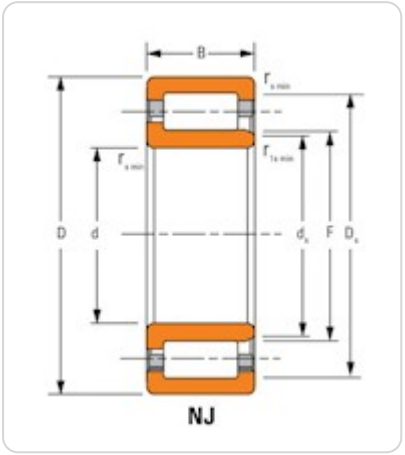
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number NJ320EMA, Cylindrical Roller Radial Bearings - Single Row ISO





Key Features

- Supports heavy radial loads
- Low friction roller design allows for high speed applications
- Separable components simplify mounting and removal

- Design has two ribs on the outer ring and one rib on the inner ring, making type NJ bearings well suited for use as semi-locating bearings
- Enhanced operational reliability
- Long service life

Key Dimensions

Bore (d)	100 mm
O.D. (D)	215 mm 8.4646 in
Width (B)	1.8504 in 47 mm
Dynamic Radial Load Rating - 1M Revs (C1)[1]	437000 N 98200 lbf

Other Dimensions

Weight	8.8 Kg 19.4 lb
Shaft Backing Shoulder Diameter	121 mm 4.8000 in
Max Shaft Fillet Radius LF ID	2.5 in 0.100 mm
Max Shaft Fillet Radius RF ID	2.5 in 0.100 mm
Max Housing Fillet Radius LF OD	2.5 in 0.1 mm
Max Housing Fillet Radius RF OD	2.5 in 0.1 mm
Design Units	Metric
Type	NJ

Ratings

Static Radial Load Rating (C0)	442000 N 99400 lbf
Thermal Reference Speed - Grease	3200 rpm
Thermal Reference Speed - Oil[2]	3700 rpm

Factors

Geometry Factor (Cg) [3]	0.1025

[1] Based on 1 x 10^6 L_{10} life for the ISO life calculation method.

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

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