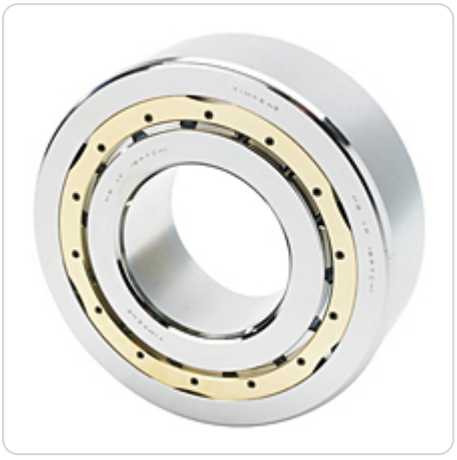
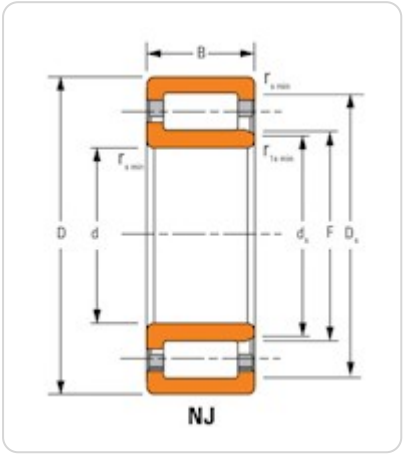
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number NJ234EMAC3, 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)	170 mm
O.D. (D)	310 mm 12.2047 in
Width (B)	2.0472 in 52 mm
Dynamic Radial Load Rating - 1M Revs (C1)[1]	685000 N 154000 lbf

Other Dimensions

Weight	17.9 Kg 39.4 lb
Shaft Backing Shoulder Diameter	201.6 mm 7.95 in
Housing Backing Shoulder Diameter	279 mm 10.98 in
Max Shaft Fillet Radius LF ID	4 in 0.160 mm
Max Shaft Fillet Radius RF ID	4 in 0.16 mm
Max Housing Fillet Radius LF OD	4 in 0.16 mm
Max Housing Fillet Radius RF OD	4 in 0.16 mm
Design Units	Metric
Type	NJ

Ratings

Static Radial Load Rating (C0)	822000 N 185000 lbf
Thermal Reference Speed - Grease	1900 rpm
Thermal Reference Speed - Oil[2]	2200 rpm

Factors

Geometry Factor (Cg) [3]	0.122

[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.