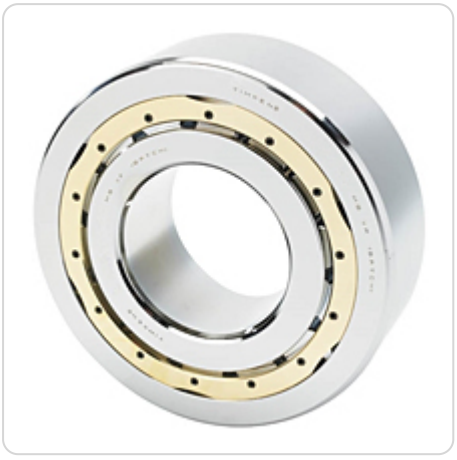
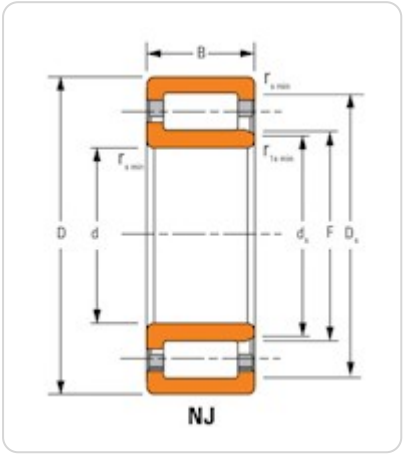
**The Timken Company**
4500 Mt Pleasant St. NW
N. Canton, OH 44720
**Phone:** (234) 262-3000
**E-Mail:** CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)



# Part Number NJ2234EMAC3, 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<br>12.2047 in |
| **Width (B)** | 3.3858 in<br>86 mm |
| **Dynamic Radial Load Rating - 1M Revs (C1)[1]** | 1100000 N<br>246000 lbf |

## Other Dimensions

| | |
|---|---|
| **Weight** | 29.3 Kg<br>64.5 lb |
| **Shaft Backing Shoulder Diameter** | 169.9 mm<br>7.7500 in |
| **Housing Backing Shoulder Diameter** | 281 mm<br>11.0600 in |
| **Max Shaft Fillet Radius LF ID** | 4 in<br>0.160 mm |
| **Max Shaft Fillet Radius RF ID** | 4 in<br>0.16 mm |
| **Max Housing Fillet Radius LF OD** | 4 in<br>0.16 mm |
| **Max Housing Fillet Radius RF OD** | 4 in<br>0.16 mm |
| **Design Units** | Metric |
| **Type** | NJ |

# Ratings

| | |
|---|---|
| **Static Radial Load Rating (C0)** | 1420000 N<br>320000 lbf |
| **Thermal Reference Speed - Grease** | 1400 rpm |
| **Thermal Reference Speed - Oil**[2] | 1600 rpm |

# Factors

| | |
|---|---|
| **Geometry Factor (Cg)** [3] | 0.138 |

[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.