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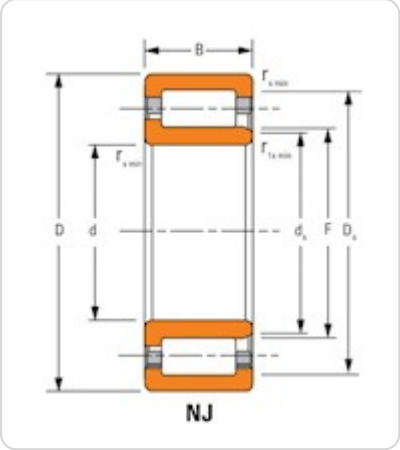
# Part Number NJ224EJ, Cylindrical Roller Radial Bearings - Single Row ISO






## 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)** | 120 mm |
| **O.D. (D)** | 215 mm<br>8.4646 in |
| **Width (B)** | 1.5748 in<br>40 mm |
| **Dynamic Radial Load Rating - 1M Revs (C1)[1]** | 379000 N<br>85200 lbf |

## Other Dimensions

| | |
|---|---|
| **Weight** | 5.8 Kg<br>12.700 lb |
| **Shaft Backing Shoulder Diameter** | 138 mm<br>5.4000 in |
| **Max Shaft Fillet Radius LF ID** | 2.0 in<br>0.100 mm |
| **Max Shaft Fillet Radius RF ID** | 2 in<br>0.100 mm |
| **Max Housing Fillet Radius LF OD** | 2 in<br>0.1 mm |
| **Max Housing Fillet Radius RF OD** | 2 in<br>0.1 mm |
| **Design Units** | Metric |
| **Type** | NJ |

## Ratings

| | |
|---|---|
| **Static Radial Load Rating (C0)** | 431000 N<br>96900 lbf |
| **Thermal Reference Speed - Grease** | 2900 rpm |
| **Thermal Reference Speed - Oil[2]** | 3400 rpm |

# Factors

| | |
|---|---|
| **Geometry Factor (Cg)** [3] | 0.1089 |

[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.