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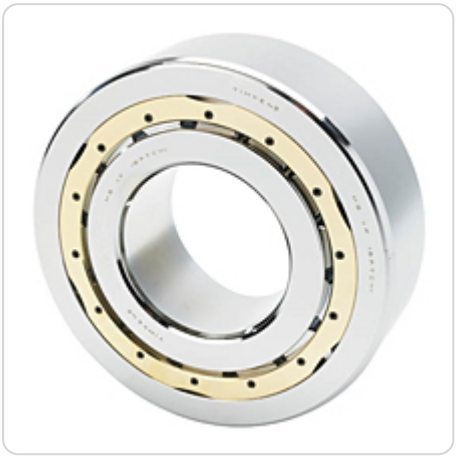
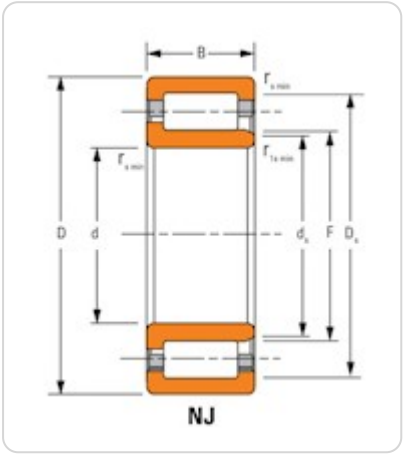
Part Number NJ219EMAC3, Cylindrical Roller Radial Bearings - Single Row ISO





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)	95 mm
O.D. (D)	170 mm 6.6929 in
Width (B)	1.2598 in 32 mm
Dynamic Radial Load Rating - 1M Revs (C1)[1]	248000 N 55800 lbf

Other Dimensions

Weight	3.2 Kg 7.100 lb
Shaft Backing Shoulder Diameter	109 mm 4.3000 in
Max Shaft Fillet Radius LF ID	2.0 in 0.100 mm
Max Shaft Fillet Radius RF ID	2 in 0.100 mm
Max Housing Fillet Radius LF OD	2 in 0.1 mm
Max Housing Fillet Radius RF OD	2 in 0.1 mm
Design Units	Metric
Type	NJ

Ratings

Static Radial Load Rating (C0)	271000 N 60900 lbf
Thermal Reference Speed - Grease	3500 rpm
Thermal Reference Speed - Oil[2]	4200 rpm

Factors

Geometry Factor (Cg) [3]	0.090

[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.