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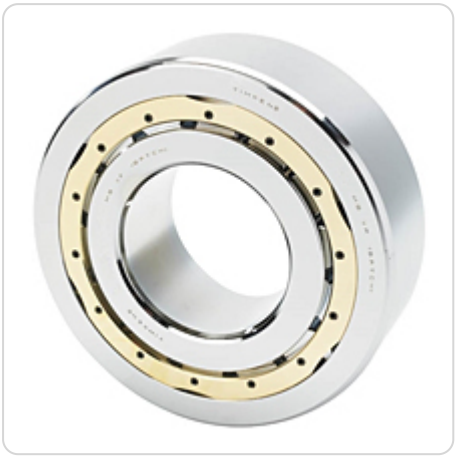
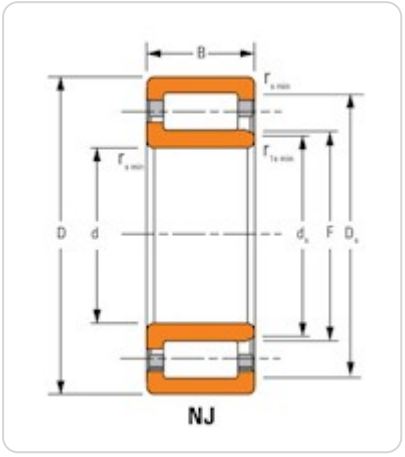
Part Number NJ220EMAC3, Cylindrical Roller Radial Bearings - Single Row ISO





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)	180 mm 7.0866 in
Width (B)	1.3386 in 34 mm
Dynamic Radial Load Rating - 1M Revs (C1)[1]	280000 N 62900 lbf

Other Dimensions

Weight	8.6 Kg 19 lb
Shaft Backing Shoulder Diameter	115 mm 4.5000 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)	311000 N 69900 lbf
Thermal Reference Speed - Grease	3400 rpm
Thermal Reference Speed - Oil[2]	4000 rpm

Factors

Geometry Factor (Cg) [3]	0.0948

[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.