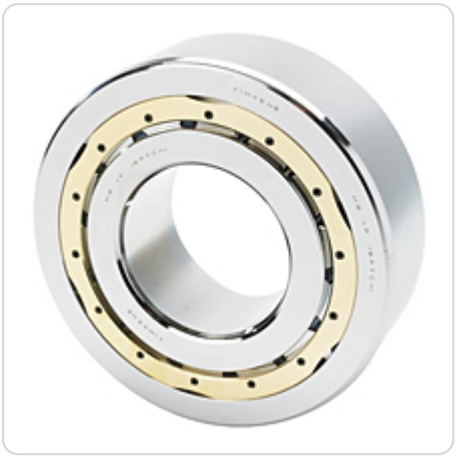
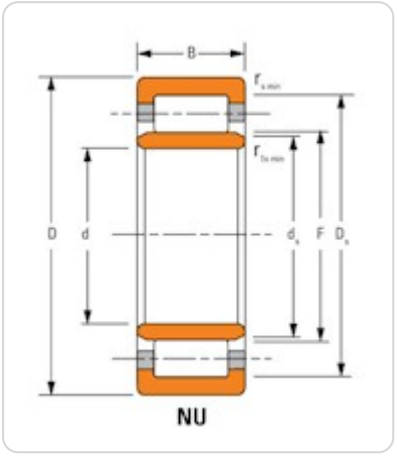
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number NU317EMAC3, Cylindrical Roller Radial Bearings - Single Row ISO





Key Features

- High radial load capacity
- Unique brass cage design for demanding applications
- Bearing can be separated for easier mounting and dismounting

- Design has a cylindrical inner ring and two ribs on the outer ring, making type NU bearings well suited for use as floating bearings
- Enhanced operational reliability
- Long service life

Key Dimensions

Bore (d)	85 mm
O.D. (D)	180 mm 7.0866 in
Width (B)	1.6142 in 41 mm
Dynamic Radial Load Rating - 1M Revs (C1)[1]	313000 N 70400 lbf

Other Dimensions

Weight	5.1 Kg 11.22 lb
Shaft Backing Shoulder Diameter	103.6 mm 4.08 in
Housing Backing Shoulder Diameter	160 mm 6.3 in
Max Shaft Fillet Radius LF ID	3 in 0.120 mm
Max Shaft Fillet Radius RF ID	3 in 0.12 mm
Max Housing Fillet Radius LF OD	3 in 0.12 mm
Max Housing Fillet Radius RF OD	3 in 0.12 mm
Design Units	Metric
Type	NU

Ratings

Static Radial Load Rating (C0)	314000 N 70600 lbf
Thermal Reference Speed - Grease	3800 rpm
Thermal Reference Speed - Oil[2]	4400 rpm

Factors

Geometry Factor (Cg) [3]	0.100

[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.