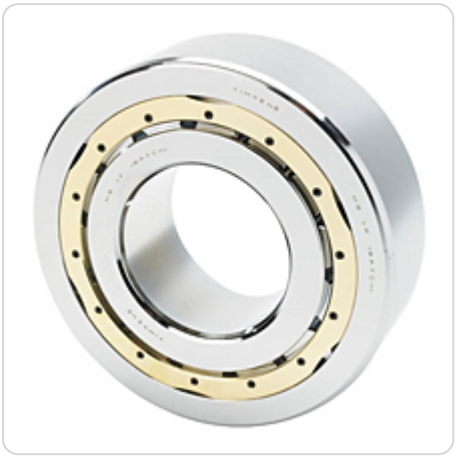
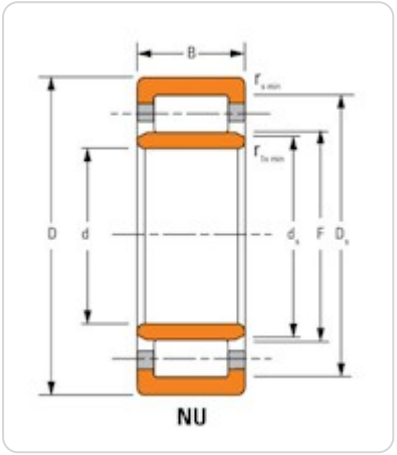
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E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number NU318EMA, 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)	90 mm
O.D. (D)	190 mm 7.4803 in
Width (B)	1.6929 in 43 mm
Dynamic Radial Load Rating - 1M Revs (C1)[1]	359000 N 80700 lbf

Other Dimensions

Weight	6.10 Kg 13.400 lb
Shaft Backing Shoulder Diameter	108 mm 4.3000 in
Max Shaft Fillet Radius LF ID	2.5 in 0.100 mm
Max Shaft Fillet Radius RF ID	2.5 in 0.100 mm
Max Housing Fillet Radius LF OD	2.5 in 0.1 mm
Max Housing Fillet Radius RF OD	2.5 in 0.1 mm
Design Units	Metric
Type	NU

Ratings

Static Radial Load Rating (C0)	362000 N 81400 lbf
Thermal Reference Speed - Grease	3600 rpm
Thermal Reference Speed - Oil[2]	4100 rpm

Factors

Geometry Factor (Cg) [3]	0.0944

[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.