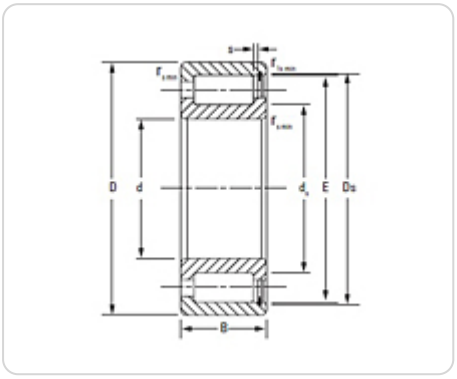
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number NCF1880VC3, Cylindrical Roller Radial Bearings - Full Complement





Key Features

- High radial load capacity
- Full-complement construction, no cage included
- Can manage axial loads in one direction and small axial displacement
- Sold as a completely unitized assembly
- Enhanced operational reliability due to optimized bearing design and reduced heat generation
- Long service life

Key Dimensions

Bore (d)	400 mm
O.D. (D)	500 mm 19.6850 in
Width (B)	1.811 in 46 mm
Dynamic Radial Load Rating - 1M Revs (C1)[1]	713000 N 160000 lbf

Other Dimensions

Weight	20.6 Kg 45.410 lb
Shaft Backing Shoulder Dia.	422 mm 16.6100 in
Housing Backing Shoulder Dia.	475 mm 18.7000 in
Max Shaft Fillet Radius LF ID	0.060 in 1.5 mm
Max Shaft Fillet Radius RF ID	2.1 in 0.080 mm
Max Housing Fillet Radius LF OD	2.1 in 0.080 mm
Max Housing Fillet Radius RF OD	0.060 in 1.5 mm
DUR/DOR F/E	474 mm 18.6614 in
Permissible Axial Displacement (S3)[2]	3.50 mm 0.138 in

Ratings

Static Radial Load Rating (C0)	1410000 N 316000 lbf
Thermal Reference Speed - Oil	350 rpm
Thermal Reference Speed - Grease	290 rpm

Factors

Geometry Factor (Cg)	0.1980 mm

[1] Based on 1 x 10^6 revolutions L_{10} life, for the ISO life calculation method.

[2] Permissible axial displacement from normal position of one bearing ring in relation to the other.