



NUP 317 ECJ Single row cylindrical roller bearing, NUP design

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Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	85 mm
Outside diameter	180 mm
Width	41 mm

Performance

Basic dynamic load rating	340 kN
Basic static load rating	335 kN
Reference speed	4 000 r/min
Limiting speed	4 800 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Tolerance class	Normal

Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class

SKF Explorer

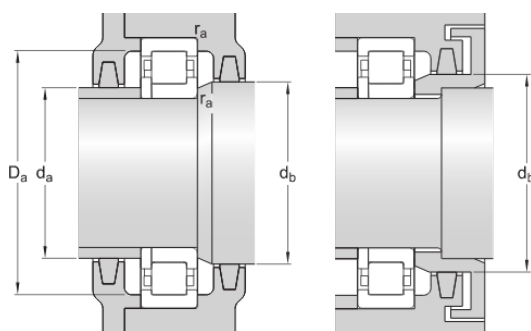


Dimensions

d	85 mm	Bore diameter
D	180 mm	Outside diameter
B	41 mm	Width
d_1	≈ 117 mm	Shoulder diameter of inner ring
D_1	≈ 151.4 mm	Shoulder diameter of outer ring
F	108 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 3 mm	Chamfer dimension
$r_{3,4}$	min. 3 mm	Chamfer dimension of loose flange ring

Abutment dimensions

d_a	min. 99 mm	Diameter of spacer sleeve
d_b	min. 120 mm	Diameter of shaft abutment
D_a	max. 165.5 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	340 kN
Basic static load rating	C_0	335 kN
Fatigue load limit	P_u	41.5 kN

Reference speed		4 000 r/min
Limiting speed		4 800 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	γ	0.6

Mass

Mass		4.95 kg
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