

NJ 211 ECJ



Single row cylindrical roller bearing, NJ design

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 on the inner ring, NJ design bearings can accommodate axial displacement in one direction. 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 one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

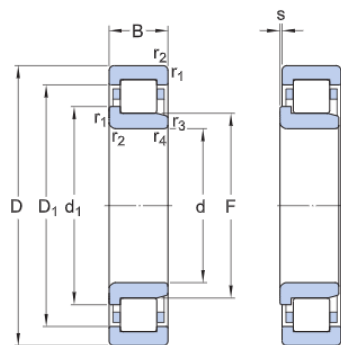
Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class

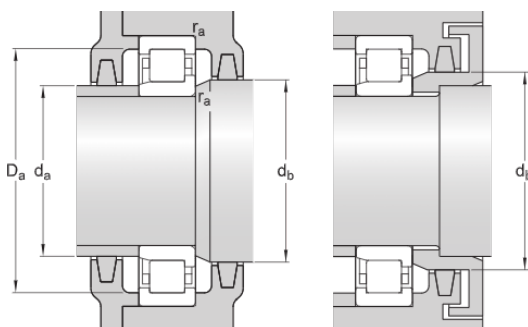
SKF Explorer

Dimensions



d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
d ₁	≈ 70.8 mm	Shoulder diameter of inner ring
D ₁	≈ 85.68 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
r _{1,2}	min. 1.5 mm	Chamfer dimension
r _{3,4}	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement

Abutment dimensions



d _a	min. 63 mm	Diameter of spacer sleeve
d _a	max. 64 mm	Diameter of spacer sleeve
d _b	min. 73 mm	Diameter of shaft abutment
D _a	max. 91.4 mm	Diameter of housing abutment
r _a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C ₀	95 kN

Fatigue load limit	P_u	12.2 kN
Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass		0.7 kg
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Associated products

Angle ring		HJ 211 EC
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