



Image may differ from product. See technical specification for details.

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

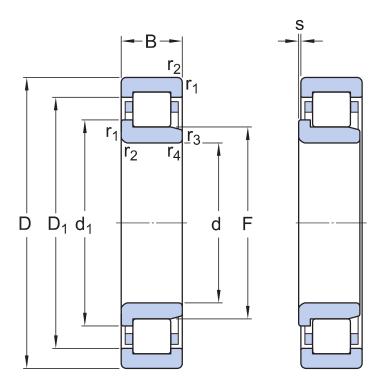
Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Tolerance class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

Logistics

Product net weight	0.701 kg
eClass code	23-05-09-01

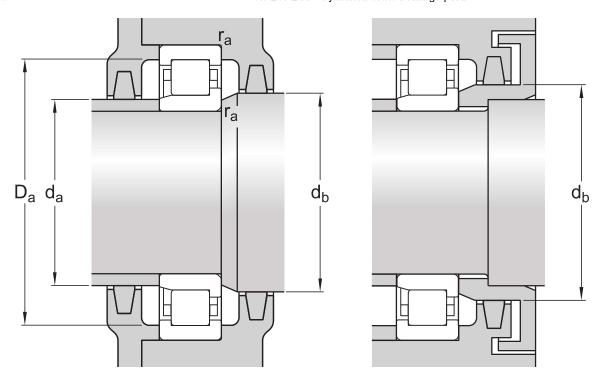
UNSPSC code 31171505

Technical specification



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
В	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
ra	max. 1.5 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	96.5 kN
Basic static load rating	C ₀	95 kN
Fatigue load limit	$P_{\rm u}$	12.2 kN
Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k _r	0.15
Limiting value	е	0.2
Calculation factor	Υ	0.6

Associated products

Angle ring HJ 211 EC

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, Normal (inch)
- Radial internal clearance: cylindrical bore, tapered bore
- Axial internal clearance: NUP, NJ + HJ

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

Compatible products

Recommended product

Angle ring (L-shaped thrust collar) for single row cylindrical roller bearings, NU or NJ design $\,$

HJ 211 EC

More Information

of rolling bearing selection aring knowledge SimPro Quick SKF Product select
SKF Product select
Bearing Frequency Calculator
lection process LubeSelect for SKF greases
lure and how to prevent it Heater selection tool
Oil Injection Method Program



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