



NJ 222 ECJ Single row cylindrical roller bearing, NJ design

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	110 mm
Outside diameter	200 mm
Width	38 mm

Performance

Basic dynamic load rating	335 kN
Basic static load rating	365 kN
Reference speed	3 600 r/min
Limiting speed	4 000 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

Technical Specification

SKF performance class

SKF Explorer



Dimensions

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	38 mm	Width
d_1	≈ 141 mm	Shoulder diameter of inner ring
D_1	≈ 172.5 mm	Shoulder diameter of outer ring
F	132.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 2.1 mm	Chamfer dimension
s	max. 2.1 mm	Permissible axial displacement

Abutment dimensions

d_a	min. 122 mm	Diameter of spacer sleeve
d_a	max. 129 mm	Diameter of spacer sleeve
d_b	min. 144 mm	Diameter of shaft abutment
D_a	max. 187 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	335 kN
Basic static load rating	C_0	365 kN

Fatigue load limit	P_u	42.5 kN
Reference speed		3 600 r/min
Limiting speed		4 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass		4.94 kg
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Associated products

Angle ring		HJ 222 EC
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