

N 207 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement 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
- Accommodate axial displacement in both directions
- Separable design



Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Reference speed	11 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

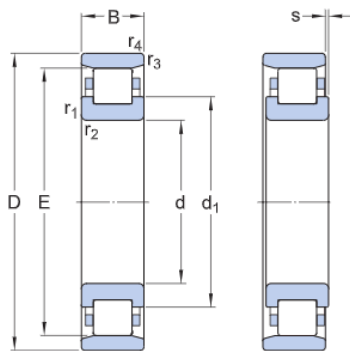
Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	0
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class

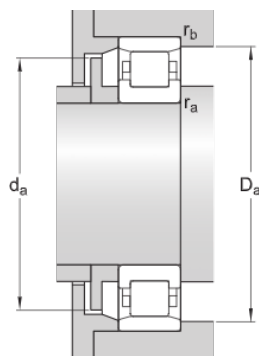
SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
E	64 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement

Abutment dimensions



d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 62 mm	Diameter of spacer sleeve
D_a	min. 66 mm	Diameter of housing abutment
D_a	max. 67.2 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass		0.3 kg
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