



SKF NJ 209 ECP

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.

Technical specifications

Dimensions	
Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm
Shoulder diameter of inner ring	59 mm
Shoulder diameter of outer ring	72.47 mm
Raceway diameter of inner ring	54.5 mm
Chamfer dimension	1.1 mm
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Permissible axial displacement	1.2 mm

Abutment dimensions	
Diameter of spacer sleeve	52 mm
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Diameter of shaft abutment	61 mm
Diameter of housing abutment	77.6 mm
Radius of fillet	1 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Fatigue load limit	8.15 kN
Reference speed	9000 r/min
Limiting speed	9500 r/min
Minimum load factor	0.15
Limiting value	0.2
Calculation factor	0.6

Associated products	
Angle ring	HJ 209 EC

Performance	
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Reference speed	9000 r/min
Limiting speed	9500 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	Without
Bore type	Cylindrical
Cage	Non-metallic
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
Indicative carbon footprint for new product	1.6 kg CO ₂ e

Logistics	
Product net weight	0.441 kg
eClass code	23-05-09-01
UNSPSC code	31171505

SKF drawings