SKF NJ 312 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.

Technical specifications

Dimensions	
Bore diameter	60 mm
Outside diameter	130 mm
Width	31 mm
Shoulder diameter of inner ring	84.3 mm
Shoulder diameter of outer ring	108.6 mm
Raceway diameter of inner ring	77 mm
Chamfer dimension	2.1 mm
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Permissible axial displacement	2.1 mm

Abutment dimensions	
Diameter of spacer sleeve	72 mm
Diameter of spacer sleeve	74 mm
Diameter of shaft abutment	87 mm
Diameter of housing abutment	118.1 mm
Radius of fillet	2 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	173 kN
Basic static load rating	160 kN
Fatigue load limit	21.2 kN
Reference speed	5600 r/min
Limiting speed	6700 r/min
Minimum load factor	0.15
Limiting value	0.2
Calculation factor	0.6

Associated products	
Angle ring	HJ 312 EC

Performance	
Basic dynamic load rating	173 kN
Basic static load rating	160 kN
Reference speed	5600 r/min
Limiting speed	6700 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	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
Indicative carbon footprint for new product	6.7 kg CO₂e

Logistics	
Product net weight	1.87 kg
eClass code	23-05-09-01
UNSPSC code	31171505

SKF drawings