

NJ 2220 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.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

| Bore diameter | 100 mm |
|------------------|--------|
| Outside diameter | 180 mm |
| Width | 46 mm |

Performance

| Basic dynamic load rating | 380 kN |
|---------------------------|--------------|
| Basic static load rating | 450 kN |
| Reference speed | 4 000 r/min |
| Limiting speed | 4 500 r/min |
| SKF performance class | SKF Explorer |

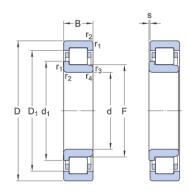
Properties

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



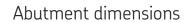
Technical Specification

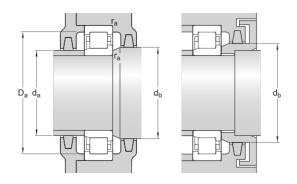
SKF performance class SKF Explorer



Dimensions

| d | 100 mm | Bore diameter |
|------------------|-------------|---------------------------------|
| D | 180 mm | Outside diameter |
| В | 46 mm | Width |
| d_1 | ≈ 127 mm | Shoulder diameter of inner ring |
| D_1 | ≈ 155.6 mm | Shoulder diameter of outer ring |
| F | 119 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. 2.5 mm | Permissible axial displacement |





| d _a min. 113 mm | Diameter of spacer sleeve |
|------------------------------|------------------------------|
| d _a max. 116 mm | Diameter of spacer sleeve |
| d _b min. 130 mm | Diameter of shaft abutment |
| D _a max. 167.5 mm | Diameter of housing abutment |
| r _a max. 2 mm | Radius of fillet |

Calculation data

| Basic dynamic load rating | С | 380 kN |
|---------------------------|-------|--------|
| Basic static load rating | C_0 | 450 kN |



| Fatigue load limit | P_{u} | 54 kN |
|---------------------|----------------|-------------|
| Reference speed | | 4 000 r/min |
| Limiting speed | | 4 500 r/min |
| Minimum load factor | k _r | 0.2 |
| Limiting value | е | 0.3 |
| Calculation factor | Υ | 0.4 |

Mass

Mass 4.98 kg

Associated products

Angle ring HJ 2220 EC



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