

N 221 ECP

SKF Explorer

Cylindrical roller bearings, single row

Bearing data

[Tolerances](#),

Normal (metric), P6, Normal (inch),

[Radial internal clearance](#),

cylindrical bore, tapered bore,

[Axial internal clearance](#),

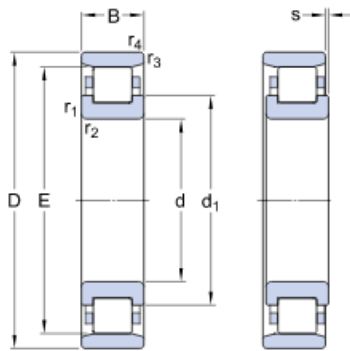
NUP, NJ + HJ

Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fit](#)

Technical specification

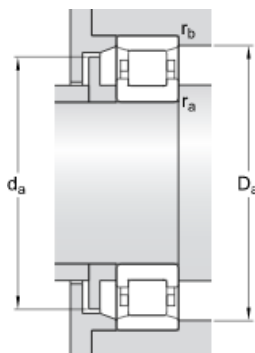


DIMENSIONS

| | |
|------------------|-------------|
| d | 105 mm |
| D | 190 mm |
| B | 36 mm |
| d ₁ | ≈ 134 mm |
| E | 173 mm |
| r _{1,2} | min. 2.1 mm |
| r _{3,4} | min. 2.1 mm |
| s | max. 2 mm |

ABUTMENT DIMENSIONS

| | |
|----------------|-------------|
| d _a | min. 117 mm |
| d _a | max. 170 mm |
| D _a | min. 176 mm |
| D _a | max. 178 mm |
| r _a | max. 2 mm |
| r _b | max. 2 mm |



CALCULATION DATA

| | | |
|---------------------------|-------|------------|
| Basic dynamic load rating | C | 300 kN |
| Basic static load rating | C_0 | 315 kN |
| Fatigue load limit | P_u | 36.5 kN |
| Reference speed | | 3800 r/min |
| Limiting speed | | 4300 r/min |
| Calculation factor | k_r | 0.12 |
| Limiting value | e | 0.2 |
| Axial load factor | Y | 0.6 |

MASS

| | | |
|--------------|--|---------|
| Mass bearing | | 3.95 kg |
|--------------|--|---------|

More information

| Product details | Product details | Engineering information | Engineering information | Tools | Tools |
|---------------------------------------|---------------------------------------|---|---|--|--|
| Designs and variants | Designs and variants | Principles of rolling bearing selection | Principles of rolling bearing selection | SimPro Quick | SimPro Quick |
| Bearing data | Bearing data | General bearing knowledge | General bearing knowledge | Bearing Select | Bearing Select |
| Loads | Loads | | | Engineering Calculator | Engineering Calculator |
| Temperature limits | Temperature limits | Bearing selection process | Bearing selection process | LubeSelect for SKF greases | LubeSelect for SKF greases |
| Permissible speed | Permissible speed | Bearing failure and how to prevent it | Bearing failure and how to prevent it | Heater selection tool | Heater selection tool |
| Design considerations | Design considerations | | | Oil Injection Method Program | Oil Injection Method Program |
| Designation system | Designation system | | | Rolling bearings mounting and dismounting instructions | Rolling bearings mounting and dismounting instructions |

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