



## NJ 224 ECP

- Popular item  
- SKF Explorer

### Cylindrical roller bearings, single row

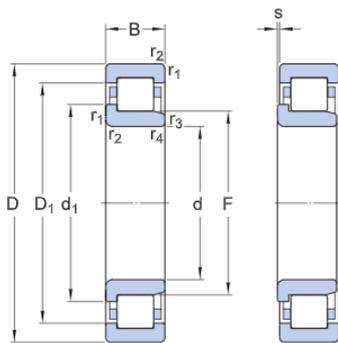
#### Bearing data

[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

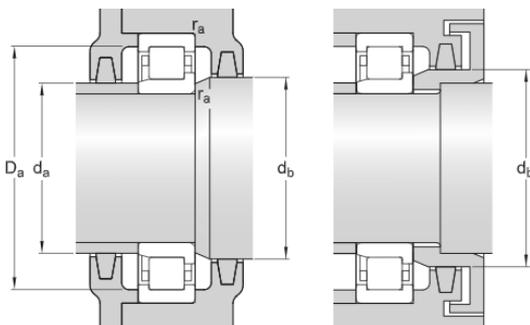


### DIMENSIONS

|                  |             |  |
|------------------|-------------|--|
| d                | 120 mm      | Bore diameter                          |
| D                | 215 mm      | Outside diameter                       |
| B                | 40 mm       | Width                                  |
| d <sub>1</sub>   | ≈ 153 mm    | Shoulder diameter of inner ring        |
| D <sub>1</sub>   | ≈ 186.83 mm | Shoulder diameter of outer ring        |
| F                | 143.5 mm    | Chamfer dimension of loose flange ring |
| r <sub>1,2</sub> | min. 2.1 mm | Chamfer dimension                      |
| r <sub>3,4</sub> | min. 2.1 mm | Chamfer dimension                      |
| s                | max. 1.9 mm | Permissible axial displacement         |

### ABUTMENT DIMENSIONS

|                |               |                              |
|----------------|---------------|------------------------------|
| d <sub>a</sub> | min. 132 mm   | Diameter of spacer sleeve    |
| d <sub>a</sub> | max. 140 mm   | Diameter of spacer sleeve    |
| d <sub>b</sub> | min. 156 mm   | Diameter of shaft abutment   |
| D <sub>a</sub> | max. 201.6 mm | Diameter of housing abutment |
| r <sub>a</sub> | max. 2 mm     | Radius of fillet             |



## CALCULATION DATA

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 390 kN      |
| Basic static load rating  | C <sub>0</sub> | 430 kN      |
| Fatigue load limit        | P <sub>u</sub> | 49 kN       |
| Reference speed           |                | 3 400 r/min |
| Limiting speed            |                | 3 600 r/min |
| Minimum load factor       | k <sub>r</sub> | 0.15        |
| Limiting value            | e              | 0.2         |
| Axial load factor         | Y              | 0.6         |

## MASS

|      |  |         |
|------|--|---------|
| Mass |  | 5.86 kg |
|------|--|---------|

## ASSOCIATED PRODUCTS

|            |  |           |
|------------|--|-----------|
| Angle ring |  | HJ 224 EC |
|------------|--|-----------|

## More information

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

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