



# NU 319 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                | 95 mm       |
| D                | 200 mm      |
| B                | 45 mm       |
| D <sub>1</sub>   | ≈ 168.45 mm |
| F                | 121.5 mm    |
| r <sub>1,2</sub> | min. 3 mm   |
| r <sub>3,4</sub> | min. 3 mm   |
| s                | max. 2.9 mm |

### ABUTMENT DIMENSIONS

|                |             |
|----------------|-------------|
| d <sub>a</sub> | min. 110 mm |
| d <sub>a</sub> | max. 118 mm |
| d <sub>b</sub> | min. 125 mm |
| D <sub>a</sub> | max. 185 mm |
| r <sub>a</sub> | max. 2.5 mm |
| r <sub>b</sub> | max. 2.5 mm |



## CALCULATION DATA

|                           |                |            |
|---------------------------|----------------|------------|
| Basic dynamic load rating | C              | 390 kN     |
| Basic static load rating  | C <sub>0</sub> | 390 kN     |
| Fatigue load limit        | P <sub>u</sub> | 46.5 kN    |
| Reference speed           |                | 3600 r/min |
| Limiting speed            |                | 4300 r/min |
| Calculation factor        | k <sub>r</sub> | 0.15       |
| Limiting value            | e              | 0.2        |
| Axial load factor         | Y              | 0.6        |

## MASS

|              |         |
|--------------|---------|
| Mass bearing | 6.18 kg |
|--------------|---------|

## ASSOCIATED PRODUCTS

|            |           |
|------------|-----------|
| Angle ring | HJ 319 EC |
|------------|-----------|

More information

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

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