



# 23944 CCK/W33

SKF Explorer

## Spherical roller bearings

### Bearing data

#### Tolerances,

Normal, P6, P5, tapered bore 1:12,  
tapered bore 1:30,

#### Radial internal clearance,

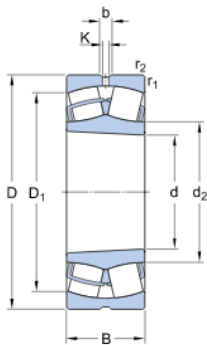
cylindrical bore, tapered bore

### Bearing interfaces

Seat tolerances for standard  
conditions,

Tolerances and resultant fit

## Technical specification

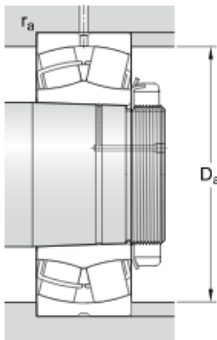


### DIMENSIONS

|                          |             |
|--------------------------|-------------|
| d                        | 220 mm      |
| D                        | 300 mm      |
| B                        | 60 mm       |
| d <sub>2</sub>           | ≈ 241 mm    |
| D <sub>1</sub>           | ≈ 278 mm    |
| b                        | 8.3 mm      |
| K                        | 4.5 mm      |
| r <sub>1,2</sub>         | min. 2.1 mm |
| Tapered bore, taper 1:12 |             |

### ABUTMENT DIMENSIONS

|                |             |
|----------------|-------------|
| D <sub>a</sub> | max. 289 mm |
| r <sub>a</sub> | max. 2 mm   |



## CALCULATION DATA

|                           |                |            |
|---------------------------|----------------|------------|
| Basic dynamic load rating | C              | 661 kN     |
| Basic static load rating  | C <sub>0</sub> | 1080 kN    |
| Fatigue load limit        | P <sub>u</sub> | 93 kN      |
| Reference speed           |                | 2000 r/min |
| Limiting speed            |                | 2200 r/min |
| Calculation factor        | e              | 0.16       |
| Calculation factor        | Y <sub>1</sub> | 4.2        |
| Calculation factor        | Y <sub>2</sub> | 6.3        |
| Calculation factor        | Y <sub>0</sub> | 4          |

## MASS

|              |  |       |
|--------------|--|-------|
| Mass bearing |  | 12 kg |
|--------------|--|-------|

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="#">Housing Select</a>  | <a href="#">Housing Select</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="#">LubeSelect for SKF greases</a>                            | <a href="#">LubeSelect for SKF greases</a>                            |
| <a href="#">Design considerations</a> | <a href="#">Design considerations</a> |   |   | <a href="#">Drive-up Method Program</a>                               | <a href="#">Drive-up Method Program</a>                               |
| <a href="#">Mounting</a>              | <a href="#">Mounting</a>              |   |   | <a href="#">Heater selection tool</a>                                 | <a href="#">Heater selection tool</a>                                 |
| <a href="#">Designation system</a>    | <a href="#">Designation system</a>    |   |   | <a href="#">Oil Injection Method Program</a>                          | <a href="#">Oil Injection Method Program</a>                          |
|                                       |                                       |   |   | <a href="#">Rolling bearings mounting and dismounting instruction</a> | <a href="#">Rolling bearings mounting and dismounting instruction</a> |
|                                       |                                       |   |   | <a href="#">Cool and Accessory Selector for sleeves and shafts</a>    | <a href="#">Cool and Accessory Selector for sleeves and shafts</a>    |

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