



231/670 CA/W33

SKF Explorer

Spherical roller bearings

Bearing data

Tolerances,

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

Radial internal clearance,

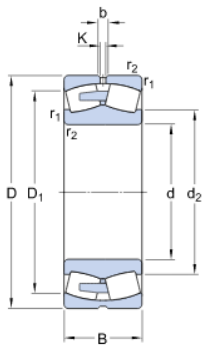
cylindrical bore, tapered bore

Bearing interfaces

Seat tolerances for standard conditions,

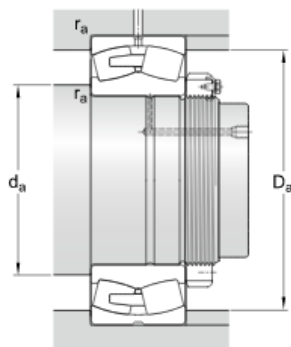
Tolerances and resultant fit

Technical specification



DIMENSIONS

| | |
|------------------|-------------|
| d | 670 mm |
| D | 1090 mm |
| B | 336 mm |
| d ₂ | ≈ 804 mm |
| D ₁ | ≈ 959 mm |
| b | 22.3 mm |
| K | 12 mm |
| r _{1,2} | min. 7.5 mm |



ABUTMENT DIMENSIONS

| | |
|----------------|--------------|
| d _a | min. 702 mm |
| D _a | max. 1058 mm |
| r _a | max. 6 mm |

CALCULATION DATA

| | | |
|---------------------------|----------------|-----------|
| Basic dynamic load rating | C | 13101 kN |
| Basic static load rating | C ₀ | 22400 kN |
| Fatigue load limit | P _u | 1320 kN |
| Reference speed | | 240 r/min |
| Limiting speed | | 500 r/min |
| Calculation factor | e | 0.3 |
| Calculation factor | Y ₁ | 2.3 |
| Calculation factor | Y ₂ | 3.4 |
| Calculation factor | Y ₀ | 2.2 |

MASS

| | |
|--------------|---------|
| Mass bearing | 1235 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 | Housing Select | Housing Select |
| Permissible speed | Permissible speed | Bearing failure and how to prevent it | Bearing failure and how to prevent it | LubeSelect for SKF greases | LubeSelect for SKF greases |
| Design considerations | Design considerations | | | Drive-up Method Program | Drive-up Method Program |
| Mounting | Mounting | | | Heater selection tool | Heater selection tool |
| Designation system | Designation system | | | Oil Injection Method Program | Oil Injection Method Program |
| | | | | Rolling bearings mounting and dismounting instruction | Rolling bearings mounting and dismounting instruction |
| | | | | Cool and Accessory Selector for sleeves and shafts | Cool and Accessory Selector for sleeves and shafts |

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