



249/850 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,](#)

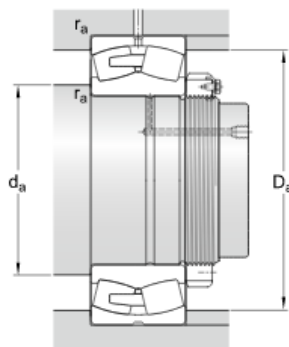
[Tolerances and resultant fit](#)

Technical specification



DIMENSIONS

| | |
|------------------|-----------|
| d | 850 mm |
| D | 1120 mm |
| B | 272 mm |
| d ₂ | ≈ 940 mm |
| D ₁ | ≈ 1029 mm |
| b | 22.3 mm |
| K | 12 mm |
| r _{1,2} | min. 6 mm |



ABUTMENT DIMENSIONS

| | |
|----------------|--------------|
| d _a | min. 873 mm |
| D _a | max. 1097 mm |
| r _a | max. 5 mm |

CALCULATION DATA

| | | |
|---------------------------|----------------|-----------|
| Basic dynamic load rating | C | 9390 kN |
| Basic static load rating | C ₀ | 22800 kN |
| Fatigue load limit | P _u | 1370 kN |
| Reference speed | | 220 r/min |
| Limiting speed | | 400 r/min |
| Calculation factor | e | 0.22 |
| Calculation factor | Y ₁ | 3 |
| Calculation factor | Y ₂ | 4.6 |
| Calculation factor | Y ₀ | 2.8 |

MASS

| | |
|--------------|--------|
| Mass bearing | 740 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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