



6003

Popular item
SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

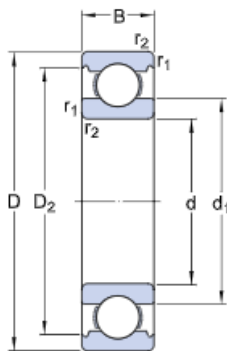
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

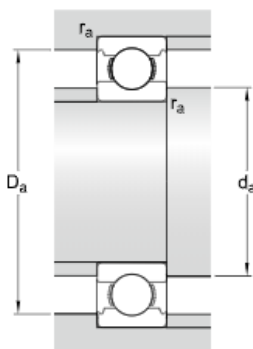
[Tolerances and resultant fits](#)

Technical Specification



DIMENSIONS

| | |
|-----------|-------------|
| d | 17 mm |
| D | 35 mm |
| B | 10 mm |
| d_1 | ≈ 23 mm |
| D_2 | ≈ 31.2 mm |
| $r_{1,2}$ | min. 0.3 mm |



ABUTMENT DIMENSIONS

| | |
|-------|-------------|
| d_a | min. 19 mm |
| D_a | max. 33 mm |
| r_a | max. 0.3 mm |

CALCULATION DATA

| | | |
|--|----------------|-------------|
| Basic dynamic load rating | C | 6.37 kN |
| Basic static load rating | C ₀ | 3.25 kN |
| Fatigue load limit | P _u | 0.137 kN |
| Reference speed | | 45000 r/min |
| Limiting speed | | 28000 r/min |
| Calculation factor minimum radial load | k _r | 0.025 |
| Calculation factor | f ₀ | 14 |

MASS

| | | |
|--------------|--|----------|
| Mass bearing | | 0.038 kg |
|--------------|--|----------|

More information

| Product details | Engineering information | Tools |
|---|---|--|
| Single row deep groove ball bearings | Principles of rolling bearing selection | Bearing Select |
| Stainless steel deep groove ball bearings | General bearing knowledge | SimPro Quick |
| Single row deep groove ball bearings with filling slots | Bearing selection process | Engineering Calculator |
| Double row deep groove ball bearings | Bearing interfaces | LubeSelect for SKF greases |
| Bearing data | Seat tolerances for standard conditions | Heater selection tool |
| Loads | Selecting internal clearance | Rolling bearings mounting and dismounting instructions |
| Temperature limits | Lubrication | |
| Permissible speed | Sealing, mounting and dismounting | |
| Designation system | Bearing failure and how to prevent it | |

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