

6009-Z

SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

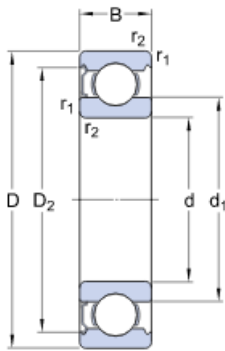
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

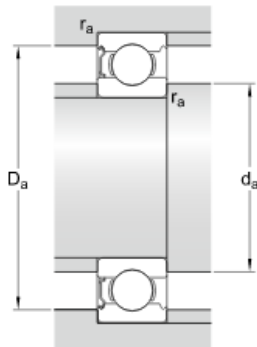
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

| | |
|-----------|--------------------|
| d | 45 mm |
| D | 75 mm |
| B | 16 mm |
| d_1 | ≈ 54.75 mm |
| D_2 | ≈ 67.8 mm |
| $r_{1,2}$ | min. 1 mm |



ABUTMENT DIMENSIONS

| | |
|-------|--------------|
| d_a | min. 50.8 mm |
| d_a | max. 54.7 mm |
| D_a | max. 69.2 mm |
| r_a | max. 1 mm |

CALCULATION DATA

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 22.1 kN |
| Basic static load rating | C_0 | 14.6 kN |
| Fatigue load limit | P_u | 0.64 kN |
| Reference speed | | 20000 r/min |
| Limiting speed | | 12000 r/min |
| Calculation factor | k_f | 0.025 |
| Calculation factor | f_0 | 14.9 |

MASS

| | | |
|--------------|--|---------|
| Mass bearing | | 0.25 kg |
|--------------|--|---------|

More information

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

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