



6315

Popular item
SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

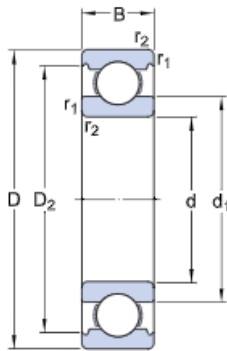
Matched bearing pairs, Stainless steel
 $d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

| | |
|-----------|-------------|
| d | 75 mm |
| D | 160 mm |
| B | 37 mm |
| d_1 | ≈ 101.4 mm |
| D_2 | ≈ 138.4 mm |
| $r_{1,2}$ | min. 2.1 mm |

ABUTMENT DIMENSIONS

| | |
|-------|-------------|
| d_a | min. 87 mm |
| D_a | max. 148 mm |
| r_a | max. 2 mm |



CALCULATION DATA

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 119 kN |
| Basic static load rating | C_0 | 76.5 kN |
| Fatigue load limit | P_u | 3 kN |
| Reference speed | | 9 000 r/min |
| Limiting speed | | 5 600 r/min |
| Calculation factor | k_r | 0.03 |
| Calculation factor | f_0 | 13.2 |

MASS

| | | |
|--------------|--|---------|
| Mass bearing | | 3.06 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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