

6305-Z

SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

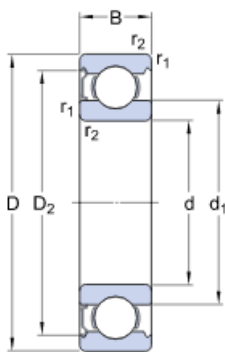
Matched bearing pairs, Stainless steel
 $d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

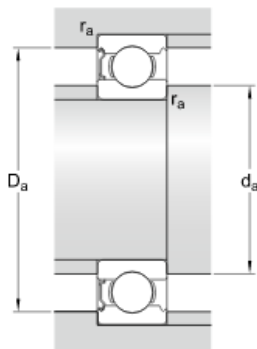
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

| | |
|-----------|-------------|
| d | 25 mm |
| D | 62 mm |
| B | 17 mm |
| d_1 | ≈ 36.6 mm |
| D_2 | ≈ 52.7 mm |
| $r_{1,2}$ | min. 1.1 mm |



ABUTMENT DIMENSIONS

| | |
|-------|--------------|
| d_a | min. 32 mm |
| d_a | max. 36.5 mm |
| D_a | max. 55 mm |
| r_a | max. 1 mm |

CALCULATION DATA

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 23.4 kN |
| Basic static load rating | C_0 | 11.6 kN |
| Fatigue load limit | P_u | 0.49 kN |
| Reference speed | | 24000 r/min |
| Limiting speed | | 16000 r/min |
| Calculation factor | k_f | 0.03 |
| Calculation factor | f_0 | 12 |

MASS

| | | |
|--------------|--|---------|
| Mass bearing | | 0.23 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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