



RLS 10

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

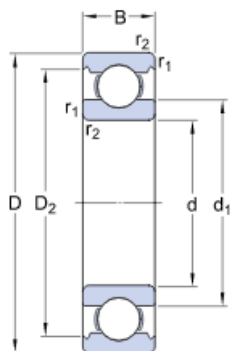
[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

Aftermarket only

Yes

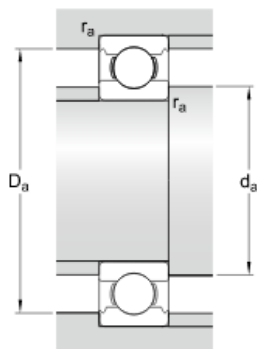


DIMENSIONS

| | |
|------------------|-------------|
| d | 31.75 mm |
| D | 69.85 mm |
| B | 17.462 mm |
| d ₁ | ≈ 42.3 mm |
| D ₂ | ≈ 57.1 mm |
| r _{1,2} | min. 1.6 mm |

ABUTMENT DIMENSIONS

| | |
|----------------|-------------|
| d _a | min. 39 mm |
| D _a | max. 62 mm |
| r _a | max. 1.5 mm |



CALCULATION DATA

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 22.5 kN |
| Basic static load rating | C_0 | 13.2 kN |
| Fatigue load limit | P_u | 0.55 kN |
| Reference speed | | 20000 r/min |
| Limiting speed | | 14000 r/min |
| Calculation factor | k_r | 0.025 |
| Calculation factor | f_0 | 14 |

MASS

| | |
|--------------|--------|
| Mass bearing | 0.3 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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