



RMS 18

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,](#)

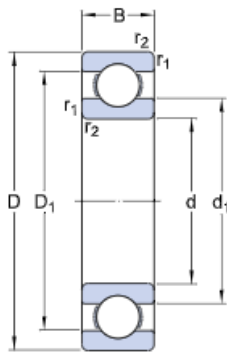
[Tolerances and resultant fits](#)

Technical specification

Aftermarket only

Yes

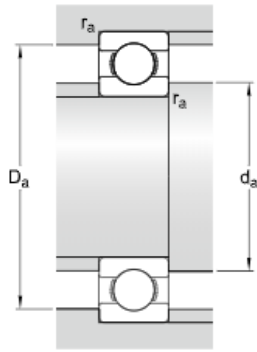
DIMENSIONS



| | |
|------------------|-------------|
| d | 57.15 mm |
| D | 127 mm |
| B | 31.75 mm |
| d ₁ | ≈ 81.86 mm |
| D ₁ | ≈ 107.9 mm |
| r _{1,2} | min. 3.2 mm |

ABUTMENT DIMENSIONS

| | |
|----------------|-------------|
| d _a | min. 72 mm |
| D _a | max. 118 mm |
| r _a | max. 2 mm |



CALCULATION DATA

| | | |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C | 81.9 kN |
| Basic static load rating | C_0 | 52 kN |
| Fatigue load limit | P_u | 2.2 kN |
| Reference speed | | 11 000 r/min |
| Limiting speed | | 10 000 r/min |
| Calculation factor | k_r | 0.03 |
| Calculation factor | f_0 | 13.1 |

MASS

| | |
|--------------|---------|
| Mass bearing | 1.68 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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