



RLS 5

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,](#)

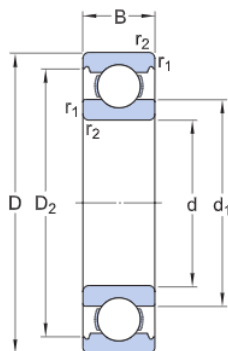
[Tolerances and resultant fits](#)

Technical specification

Aftermarket only

Yes

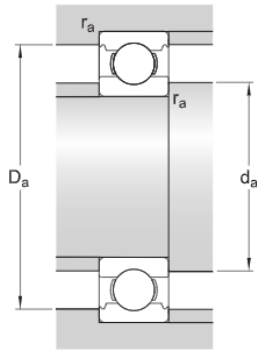
DIMENSIONS



| | | |
|------------------|-------------|-------------------|
| d | 15.875 mm | Bore diameter |
| D | 39.688 mm | Outside diameter |
| B | 11.112 mm | Width |
| d ₂ | ≈ 21.5 mm | Recess diameter |
| D ₂ | ≈ 34.98 mm | Recess diameter |
| r _{1,2} | min. 0.8 mm | Chamfer dimension |

ABUTMENT DIMENSIONS

| | |
|----------------------------|-----------------------------------|
| d _e min. 20 mm | Diameter of shaft abutment |
| D _i max. 35 mm | Diameter of housing abutment |
| r _a max. 0.8 mm | Radius of shaft or housing fillet |



CALCULATION DATA

| | | |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C | 9.56 kN |
| Basic static load rating | C_0 | 4.75 kN |
| Fatigue load limit | P_u | 0.2 kN |
| Reference speed | | 34 000 r/min |
| Limiting speed | | 24 000 r/min |
| Minimum load factor | k_T | 0.025 |
| Calculation factor | f_0 | 13.1 |

MASS

| | |
|--------------|----------|
| Mass bearing | 0.066 kg |
|--------------|----------|

TOLERANCE CLASS

| | |
|------------------------|--------|
| Dimensional tolerances | Normal |
| Radial run-out | Normal |

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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