



RMS 7

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

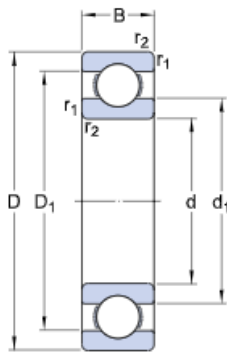
[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

Technical specification

Aftermarket only

Yes

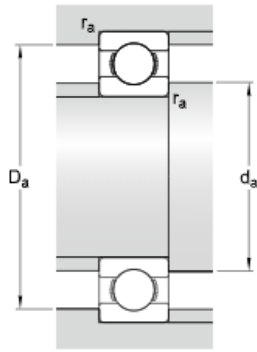


DIMENSIONS

| | | |
|------|--------------|-------------------|
| d | 0.875 in | Bore diameter |
| D | 2.25 in | Outside diameter |
| B | 0.688 in | Width |
| d1 | ≈1.295 in | Shoulder diameter |
| D1 | ≈1.784 in | Shoulder diameter |
| r1,2 | min.0.063 in | Chamfer dimension |

ABUTMENT DIMENSIONS

| | | |
|----|--------------|-----------------------------------|
| da | min.1.161 in | Diameter of shaft abutment |
| Da | max.1.969 in | Diameter of housing abutment |
| ra | max.0.059 in | Radius of shaft or housing fillet |



CALCULATION DATA

| | | |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C | 4 181 lbf |
| Basic static load rating | C_0 | 2 091 lbf |
| Fatigue load limit | P_u | 88 lbf |
| Reference speed | | 28 000 r/min |
| Limiting speed | | 18 000 r/min |
| Minimum load factor | k_T | 0.03 |
| Calculation factor | f_0 | 12 |

MASS

| | |
|--------------|----------|
| Mass bearing | 0.46 lbs |
|--------------|----------|

TOLERANCE CLASS

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

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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