



6220-2RS1 Deep groove ball bearing with seals or shields

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

| | |
|------------------|--------|
| Bore diameter | 100 mm |
| Outside diameter | 180 mm |
| Width | 34 mm |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 127 kN |
| Basic static load rating | 93 kN |
| Limiting speed | 2 400 r/min |
| SKF performance class | SKF Explorer |

Properties

| | |
|--------------------------------------|--------------------|
| Filling slots | Without |
| Number of rows | 1 |
| Locating feature, bearing outer ring | None |
| Bore type | Cylindrical |
| Cage | Sheet metal |
| Matched arrangement | No |
| Radial internal clearance | CN |
| Tolerance class | Normal |
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Seal on both sides |
| Sealing type | Contact |

Lubricant

Grease

Relubrication feature

Without

Technical Specification

SKF performance class

SKF Explorer



Dimensions

| | | |
|-----------|-------------|-------------------|
| d | 100 mm | Bore diameter |
| D | 180 mm | Outside diameter |
| B | 34 mm | Width |
| d_1 | ≈ 124.8 mm | Shoulder diameter |
| D_2 | ≈ 159.9 mm | Recess diameter |
| $r_{1,2}$ | min. 2.1 mm | Chamfer dimension |

Abutment dimensions

| | | |
|-------|-------------|-----------------------------------|
| d_a | min. 112 mm | Diameter of shaft abutment |
| d_a | max. 124 mm | Diameter of shaft abutment |
| D_a | max. 168 mm | Diameter of housing abutment |
| r_a | max. 2 mm | Radius of shaft or housing fillet |



Calculation data

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 127 kN |
| Basic static load rating | C_0 | 93 kN |
| Fatigue load limit | P_u | 3.35 kN |
| Limiting speed | | 2 400 r/min |

| | | |
|---------------------|-------|-------|
| Minimum load factor | k_r | 0.025 |
| Calculation factor | f_0 | 14.4 |

Mass

| | |
|--------------|--------|
| Mass bearing | 3.3 kg |
|--------------|--------|

Tolerance class

| | |
|------------------------|--------|
| Dimensional tolerances | P6 |
| Radial run-out | Normal |

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