

61820-2RZ 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 | 125 mm |
| Width | 13 mm |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 17.8 kN |
| Basic static load rating | 18.3 kN |
| Reference speed | 10 000 r/min |
| Limiting speed | 5 300 r/min |

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 | Non-contact |

Lubricant

Grease

Relubrication feature

Without

Technical Specification

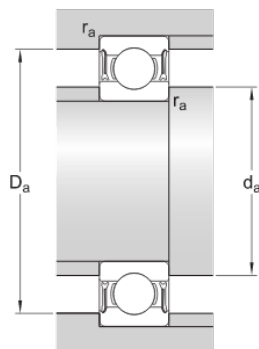


Dimensions

| | | |
|-----------|------------|-------------------|
| d | 100 mm | Bore diameter |
| D | 125 mm | Outside diameter |
| B | 13 mm | Width |
| d_1 | ≈ 108.3 mm | Shoulder diameter |
| D_2 | ≈ 119.3 mm | Recess diameter |
| $r_{1,2}$ | min. 1 mm | Chamfer dimension |

Abutment dimensions

| | | |
|-------|---------------|-----------------------------------|
| d_a | min. 105 mm | Diameter of shaft abutment |
| d_a | max. 107.9 mm | Diameter of shaft abutment |
| D_a | max. 120 mm | Diameter of housing abutment |
| r_a | max. 1 mm | Radius of shaft or housing fillet |



Calculation data

| | | |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C | 17.8 kN |
| Basic static load rating | C_0 | 18.3 kN |
| Fatigue load limit | P_u | 0.95 kN |
| Reference speed | | 10 000 r/min |
| Limiting speed | | 5 300 r/min |
| Minimum load factor | k_r | 0.015 |
| Calculation factor | f_0 | 13.3 |

Mass

| | |
|--------------|---------|
| Mass bearing | 0.32 kg |
|--------------|---------|

Tolerance class

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

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