

61840 Deep groove ball bearing



Deep groove ball bearing

Single row deep groove ball bearings 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.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

| | |
|------------------|--------|
| Bore diameter | 200 mm |
| Outside diameter | 250 mm |
| Width | 24 mm |

Performance

| | |
|---------------------------|-------------|
| Basic dynamic load rating | 76.1 kN |
| Basic static load rating | 102 kN |
| Reference speed | 5 000 r/min |
| Limiting speed | 3 200 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 | Without |
| Lubricant | None |
| Relubrication feature | Without |

Technical Specification



Dimensions

| | | |
|------------------|-------------|-------------------|
| d | 200 mm | Bore diameter |
| D | 250 mm | Outside diameter |
| B | 24 mm | Width |
| d ₁ | ≈ 216 mm | Shoulder diameter |
| D ₁ | ≈ 234 mm | Shoulder diameter |
| r _{1,2} | min. 1.5 mm | Chamfer dimension |

Abutment dimensions

| | | |
|----------------|-------------|-----------------------------------|
| d _a | min. 207 mm | Diameter of shaft abutment |
| D _a | max. 243 mm | Diameter of housing abutment |
| r _a | max. 1.5 mm | Radius of shaft or housing fillet |



Calculation data

| | | |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C | 76.1 kN |
| Basic static load rating | C ₀ | 102 kN |
| Fatigue load limit | P _u | 2.9 kN |
| Reference speed | | 5 000 r/min |
| Limiting speed | | 3 200 r/min |
| Minimum load factor | k _r | 0.015 |
| Calculation factor | f ₀ | 17.2 |

Mass

| | |
|--------------|---------|
| Mass bearing | 2.34 kg |
|--------------|---------|

Tolerance class

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

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