



Image may differ from product. See technical specification for details.

61964 MA

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 | 320 mm |
| Outside diameter | 440 mm |
| Width | 56 mm |

Performance

| | |
|---------------------------|-------------|
| Basic dynamic load rating | 276 kN |
| Basic static load rating | 400 kN |
| Reference speed | 2 800 r/min |
| Limiting speed | 2 400 r/min |

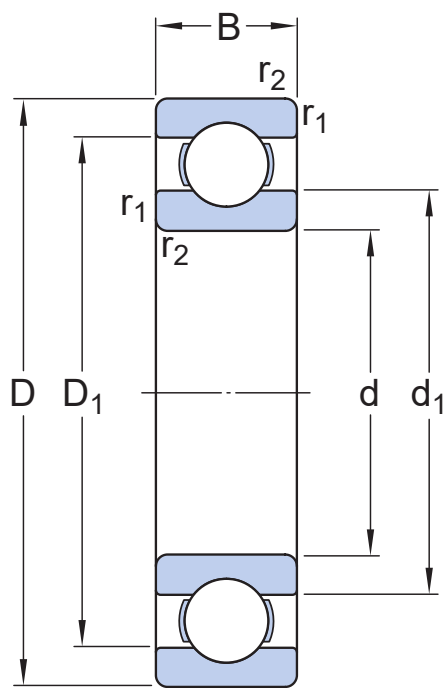
Properties

| | |
|--------------------------------------|----------------|
| Filling slots | Without |
| Number of rows | 1 |
| Locating feature, bearing outer ring | None |
| Bore type | Cylindrical |
| Cage | Machined metal |
| Matched arrangement | No |
| Radial internal clearance | CN |
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Without |
| Candidate for remanufacturing | Yes |

Logistics

| | |
|--------------------|-------------|
| Product net weight | 25.3 kg |
| eClass code | 23-05-08-01 |
| UNSPSC code | 31171504 |

Technical specification



Dimensions

| | | |
|-------------------|---------------|--|
| d | 320 mm | Bore diameter |
| t _{Δdmp} | -0.04 – 0 mm | Deviation limits of mid-range bore diameter |
| D | 440 mm | Outside diameter |
| t _{ΔDmp} | -0.045 – 0 mm | Deviation limits of mid-range outside diameter |
| B | 56 mm | Width |
| t _{ΔBs} | -0.4 – 0 mm | Deviation limits of ring width |
| d ₁ | ≈ 358.1 mm | Shoulder diameter |
| D ₁ | ≈ 402.83 mm | Shoulder diameter |
| r _{1,2} | min. 3 mm | Chamfer dimension |
| | Normal | ISO tolerance class for dimensions |



Abutment dimensions

| | | |
|-------|-------------|-----------------------------------|
| d_a | min. 333 mm | Diameter of shaft abutment |
| D_a | max. 427 mm | Diameter of housing abutment |
| r_a | max. 2.5 mm | Radius of shaft or housing fillet |

Calculation data

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 276 kN |
| Basic static load rating | C_0 | 400 kN |
| Fatigue load limit | P_u | 8.65 kN |
| Reference speed | | 2 800 r/min |
| Limiting speed | | 2 400 r/min |
| Minimum load factor | k_r | 0.02 |
| Calculation factor | f_0 | 16.5 |

Tolerances of run-out

| | | |
|--|-----------|------------|
| Range of section height at inner ring of assembled bearing | t_{kia} | 60 μ m |
| Range of section height at outer ring of assembled bearing | t_{kea} | 80 μ m |
| ISO tolerance class for geometrical tolerances | | Normal |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

More Information

|  Product details |  Engineering information |  Tools |
|---|---|---|
| Single row deep groove ball bearings | Principles of rolling bearing selection | SKF Product select |
| Stainless steel deep groove ball bearings | General bearing knowledge | SimPro Quick |
| Single row deep groove ball bearings with filling slots | Bearing selection process | Bearing Frequency Calculator |
| Double row deep groove ball bearings | Bearing interfaces | LubeSelect for SKF greases |
| General bearing specifications | Seat tolerances for standard conditions | Heater selection tool |
| Loads | Selecting internal clearance | |
| Temperature limits | Lubrication | |
| Permissible speed | Sealing, mounting and dismounting | |
| Designation system | Bearing failure and how to prevent it | |

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