



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

## 6052 M

### 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    | 260 mm |
| Outside diameter | 400 mm |
| Width            | 65 mm  |

Performance

|                           |             |
|---------------------------|-------------|
| Basic dynamic load rating | 291 kN      |
| Basic static load rating  | 375 kN      |
| Reference speed           | 3 200 r/min |
| Limiting speed            | 2 800 r/min |

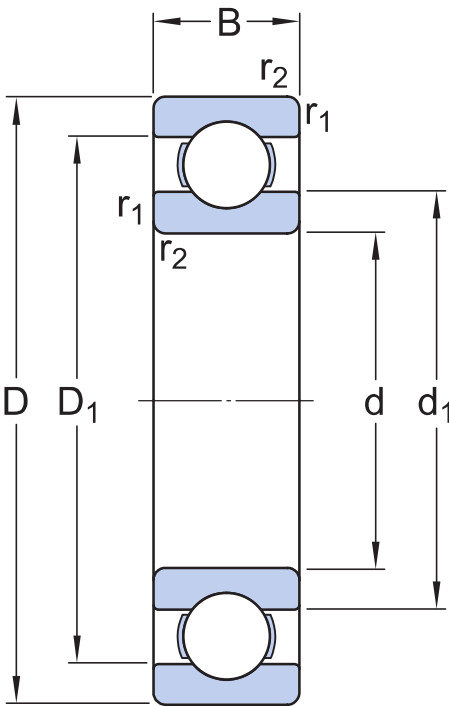
Properties

|                                      |                |
|--------------------------------------|----------------|
| 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        |

Logistics

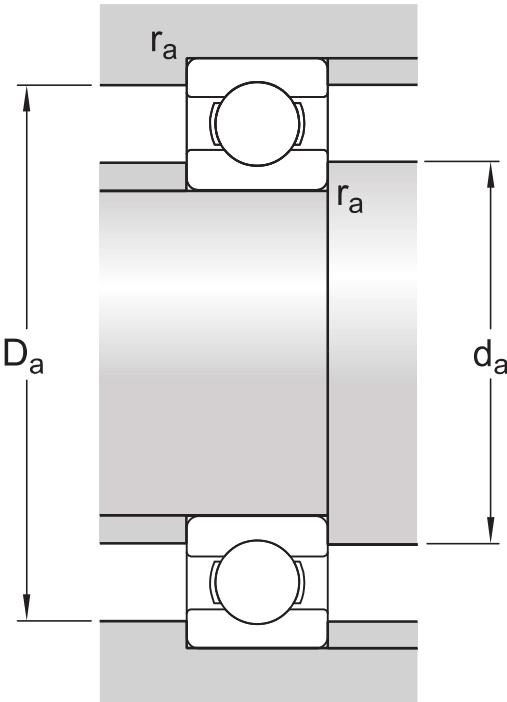
|                    |             |
|--------------------|-------------|
| Product net weight | 29.3 kg     |
| eClass code        | 23-05-08-01 |
| UNSPSC code        | 31171504    |

Technical specification



Dimensions

|                  |             |                   |
|------------------|-------------|-------------------|
| d                | 260 mm      | Bore diameter     |
| D                | 400 mm      | Outside diameter  |
| B                | 65 mm       | Width             |
| d <sub>1</sub>   | ≈ 304.9 mm  | Shoulder diameter |
| D <sub>1</sub>   | ≈ 355.05 mm | Shoulder diameter |
| r <sub>1,2</sub> | min. 4 mm   | Chamfer dimension |



Abutment dimensions

|       |             |                                   |
|-------|-------------|-----------------------------------|
| $d_a$ | min. 277 mm | Diameter of shaft abutment        |
| $D_a$ | max. 383 mm | Diameter of housing abutment      |
| $r_a$ | max. 3 mm   | Radius of shaft or housing fillet |

Calculation data

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 291 kN      |
| Basic static load rating  | $C_0$ | 375 kN      |
| Fatigue load limit        | $P_u$ | 8.8 kN      |
| Reference speed           |       | 3 200 r/min |
| Limiting speed            |       | 2 800 r/min |
| Minimum load factor       | $k_r$ | 0.025       |
| Calculation factor        | $f_0$ | 15.8        |

Tolerance class

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

## Tolerances and clearances

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### 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

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