



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

W 623-2RS1

Stainless steel deep groove ball bearing with integral sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they 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 other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

| | |
|------------------|-------|
| Bore diameter | 3 mm |
| Outside diameter | 10 mm |
| Width | 4 mm |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 0.358 kN |
| Basic static load rating | 0.11 kN |
| Limiting speed | 40 000 r/min |

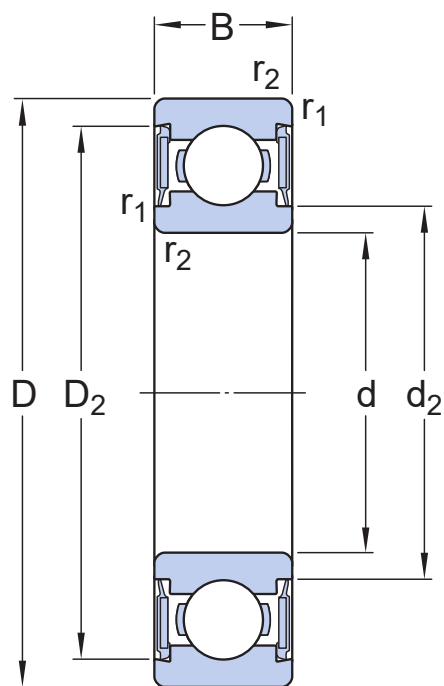
Properties

| | |
|--------------------------------------|--------------------|
| 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 |
| Material, bearing | Stainless steel |
| Coating | Without |
| Sealing | Seal on both sides |
| Sealing type | Contact |
| Lubricant | Grease |
| Relubrication feature | Without |

Logistics

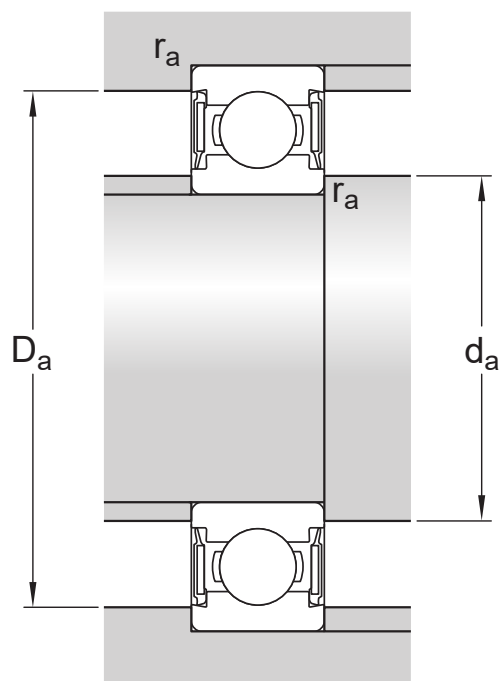
| | |
|--------------------|-------------|
| Product net weight | 0.0015 kg |
| eClass code | 23-05-08-01 |
| UNSPSC code | 31171504 |

Technical specification



Dimensions

| | | |
|------------------|--------------|-------------------|
| d | 3 mm | Bore diameter |
| D | 10 mm | Outside diameter |
| B | 4 mm | Width |
| d ₂ | ≈ 4.35 mm | Recess diameter |
| D ₂ | ≈ 7.98 mm | Recess diameter |
| r _{1,2} | min. 0.15 mm | Chamfer dimension |



Abutment dimensions

| | | |
|-------|--------------|-----------------------------------|
| d_a | min. 3.9 mm | Diameter of shaft abutment |
| d_a | max. 4.3 mm | Diameter of shaft abutment |
| D_a | max. 8.8 mm | Diameter of housing abutment |
| r_a | max. 0.15 mm | Radius of shaft or housing fillet |

Calculation data

| | | |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C | 0.358 kN |
| Basic static load rating | C_0 | 0.11 kN |
| Fatigue load limit | P_u | 0.005 kN |
| Limiting speed | | 40 000 r/min |
| Minimum load factor | k_f | 0.03 |
| Calculation factor | f_0 | 6.3 |

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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