

W 6008-2RS1



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 | 40 mm |
| Outside diameter | 68 mm |
| Width | 15 mm |

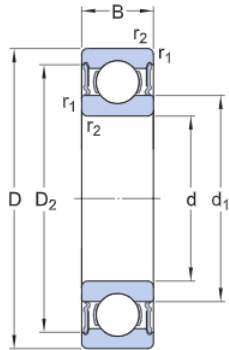
Performance

| | |
|---------------------------|-------------|
| Basic dynamic load rating | 14.6 kN |
| Basic static load rating | 11.4 kN |
| Limiting speed | 6 300 r/min |

Properties

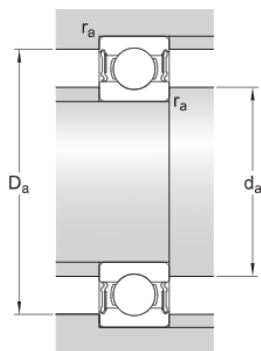
| | |
|--------------------------------------|--------------------|
| Bore type | Cylindrical |
| Cage | Sheet metal |
| Coating | Without |
| Filling slots | Without |
| Locating feature, bearing outer ring | None |
| Lubricant | Grease |
| Matched arrangement | No |
| Material, bearing | Stainless steel |
| Number of rows | 1 |
| Radial internal clearance | CN |
| Relubrication feature | Without |
| Sealing | Seal on both sides |
| Sealing type | Contact |

Technical Specification



Dimensions

| | | |
|------------------|-----------|-------------------|
| d | 40 mm | Bore diameter |
| D | 68 mm | Outside diameter |
| B | 15 mm | Width |
| d ₁ | ≈ 49.2 mm | Shoulder diameter |
| d ₂ | ≈ 49.2 mm | Recess diameter |
| D ₂ | ≈ 62.5 mm | Recess diameter |
| r _{1,2} | min. 1 mm | Chamfer dimension |



Abutment dimensions

| | | |
|---------------------|---------|-----------------------------------|
| d _a min. | 45 mm | Diameter of shaft abutment |
| d _a max. | 49 mm | Diameter of shaft abutment |
| D _a max. | 63.5 mm | Diameter of housing abutment |
| r _a max. | 1 mm | Radius of shaft or housing fillet |

Calculation data

| | | |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C | 14.6 kN |
| Basic static load rating | C ₀ | 11.4 kN |
| Fatigue load limit | P _u | 0.49 kN |
| Limiting speed | | 6 300 r/min |
| Minimum load factor | k _r | 0.03 |
| Calculation factor | f ₀ | 15.2 |

Mass

| | |
|--------------|---------|
| Mass bearing | 0.18 kg |
|--------------|---------|

Tolerance class

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

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