



6220/C3VL0241

INSOCOAT® deep groove ball bearing

INSOCOAT single row deep groove ball bearings feature an electrically insulating coating on the outside surfaces of either the inner or outer bearing ring. This keeps stray electric currents from passing through the bearings, protecting them against electrical erosion damage and helping prevent lubricant degradation resulting from electric current discharge. 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 many other bearing types.

- Coating protects against electrical erosion damage
- Reduced lubricant degradation resulting from electric current discharge
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

| | |
|------------------|--------|
| Bore diameter | 100 mm |
| Outside diameter | 180 mm |
| Width | 34 mm |

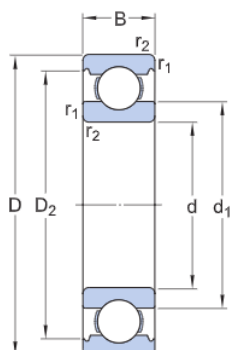
Performance

| | |
|---------------------------|-------------|
| Basic dynamic load rating | 127 kN |
| Basic static load rating | 93 kN |
| Limiting speed | 4 800 r/min |
| Reference speed | 7 500 r/min |

Properties

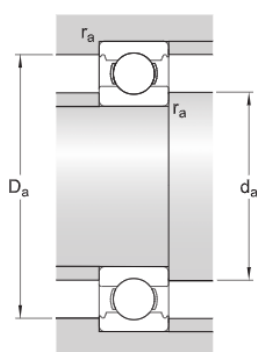
| | |
|--------------------------------------|----------------------------------|
| Bore type | Cylindrical |
| Cage | Sheet metal |
| Coating | Insulation coating on outer ring |
| Filling slots | Without |
| Locating feature, bearing outer ring | None |
| Lubricant | None |
| Matched arrangement | No |
| Material, bearing | Bearing steel |
| Number of rows | 1 |
| Radial internal clearance | C3 |
| Relubrication feature | Without |
| Sealing | Without |

Technical Specification



Dimensions

| | | |
|------------------|-------------|-------------------------------------|
| d | 100 mm | Bore diameter |
| D | 180 mm | Outside diameter |
| B | 34 mm | Width |
| d ₁ | ≈ 124.8 mm | Shoulder diameter inner ring |
| D ₂ | ≈ 160 mm | Recess diameter outer ring shoulder |
| r _{1,2} | min. 2.1 mm | Chamfer dimension |



Abutment dimensions

| | | |
|----------------|-------------|---------------------------|
| d _a | min. 112 mm | Abutment diameter shaft |
| D _a | min. 165 mm | Abutment diameter shaft |
| D _a | max. 168 mm | Abutment diameter housing |
| r _a | max. 2 mm | Fillet radius |

Calculation data

| | | |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C | 127 kN |
| Basic static load rating | C ₀ | 93 kN |
| Fatigue load limit | P _u | 3.35 kN |
| Reference speed | | 7 500 r/min |
| Limiting speed | | 4 800 r/min |
| Calculation factor | k _r | 0.025 |
| Calculation factor | f ₀ | 14.4 |

Mass

| | |
|--------------|---------|
| Mass bearing | 3.15 kg |
|--------------|---------|

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