



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

7210 BECBJ

Single row angular contact ball bearing

These single row angular contact ball bearings can accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They can operate at high speeds and, depending on the variant, even very high speeds. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- High-speed capability
- Accommodate relatively high radial loads and large unilateral axial loads

Overview

Dimensions

| | |
|------------------|----------|
| Bore diameter | 1.969 in |
| Outside diameter | 3.543 in |
| Width | 0.787 in |
| Contact angle | 40 ° |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 8 992 lbf |
| Basic static load rating | 6 969 lbf |
| Reference speed | 9 000 r/min |
| Limiting speed | 9 000 r/min |
| SKF performance class | SKF Explorer |

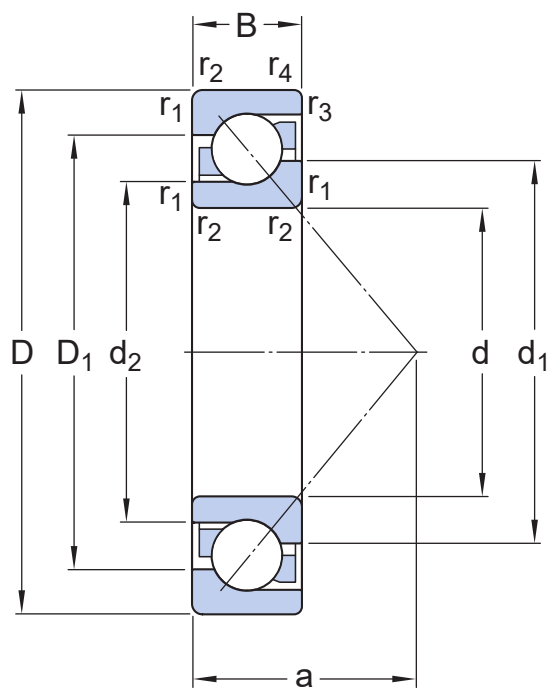
Properties

| | |
|--|------------------------------------|
| Contact type | Normal contact (two-point contact) |
| Number of rows | 1 |
| Locating feature, bearing outer ring | None |
| Ring type | One-piece inner and outer rings |
| Cage | Steel sheet metal |
| Matched arrangement | No |
| Universal matching bearing | Yes |
| Axial internal clearance | Not applicable |
| Matched condition (axial clearance/ preload) | Axial clearance CB |
| Tolerance class | Class P6 (P6) |
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Without |

Logistics

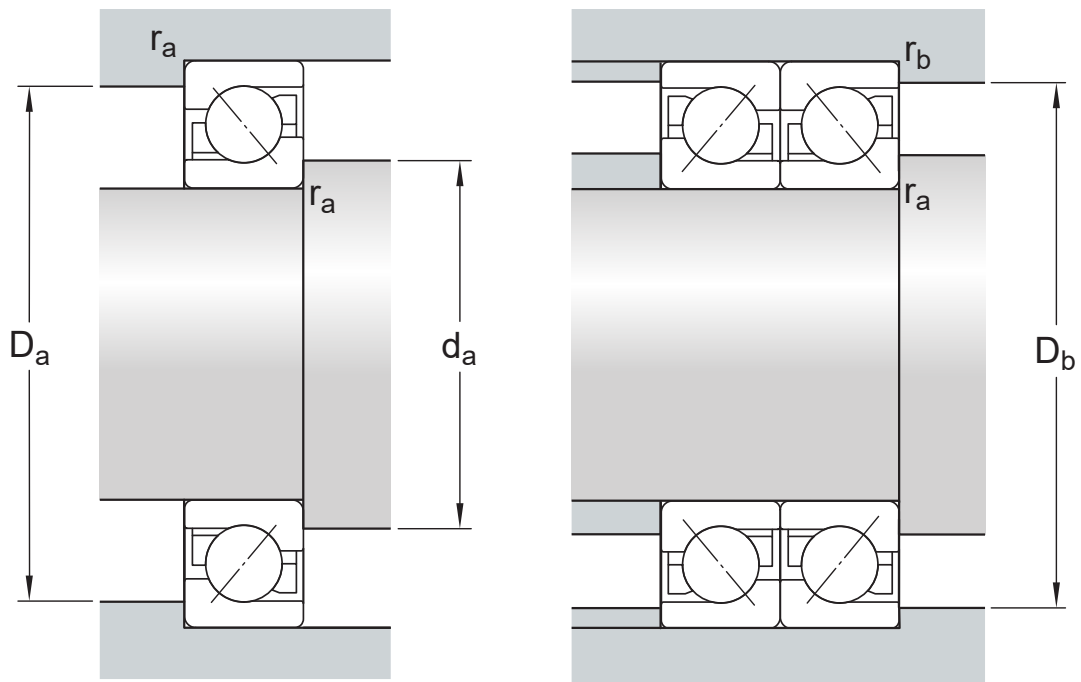
| | |
|--------------------|-------------|
| Product net weight | 1.041 lb |
| eClass code | 23-05-08-03 |
| UNSPSC code | 31171531 |

Technical specification



Dimensions

| | | |
|------------------|---------------|---|
| d | 1.969 in | Bore diameter |
| D | 3.543 in | Outside diameter |
| B | 0.787 in | Width |
| d ₁ | ≈ 2.589 in | Shoulder diameter of inner ring (large side face) |
| d ₂ | ≈ 2.271 in | Shoulder diameter of inner ring (small side face) |
| D ₁ | ≈ 2.959 in | Shoulder diameter of outer ring (large side face) |
| a | 1.535 in | Distance side face to pressure point |
| r _{1,2} | min. 0.043 in | Chamfer dimension |
| r _{3,4} | min. 0.024 in | Chamfer dimension |



Abutment dimensions

| | | |
|-------|---------------|------------------------------|
| d_a | min. 2.244 in | Diameter of shaft abutment |
| D_a | max. 3.268 in | Abutment diameter housing |
| D_b | max. 3.378 in | Diameter of housing abutment |
| r_a | max. 0.039 in | Radius of fillet |
| r_b | max. 0.024 in | Radius of fillet |

Calculation data

| | | |
|---------------------------|-------|--------------|
| SKF performance class | | SKF Explorer |
| Basic dynamic load rating | C | 8 992 lbf |
| Basic static load rating | C_0 | 6 969 lbf |
| Fatigue load limit | P_u | 297 lbf |
| Reference speed | | 9 000 r/min |
| Limiting speed | | 9 000 r/min |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS




- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Internal clearance: CA+CB+CC, G

- Preload: GA+GB+GC

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

| | | |
|---|--|---|
| <div> Product details</div> <div><div>Designs and variants</div><div>General bearing specifications</div><div>Loads</div><div>Temperature limits</div><div>Permissible speed</div><div>Design considerations</div><div>Designation system</div></div> | <div> Engineering information</div> <div><div>Principles of rolling bearing selection</div><div>General bearing knowledge</div><div>Bearing selection process</div><div>Bearing interfaces</div><div>Seat tolerances for standard conditions</div><div>Selecting internal clearance or preload</div><div>Lubrication</div><div>Sealing, mounting and dismounting</div><div>Bearing failure and how to prevent it</div></div> | <div> Tools</div> <div><div>SKF Product select</div><div>SimPro Quick</div><div>Bearing Frequency Calculator</div><div>LubeSelect for SKF greases</div><div>Heater selection tool</div><div>SKF mounting and dismounting instructions</div></div> |
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