



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

7207 BEGBP

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 | 1.378 in |
| Outside diameter | 2.835 in |
| Width | 0.669 in |
| Contact angle | 40 ° |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 6 969 lbf |
| Basic static load rating | 4 676 lbf |
| Reference speed | 11 000 r/min |
| Limiting speed | 12 000 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 | Non-metallic |
| Matched arrangement | No |
| Universal matching bearing | Yes |
| Axial internal clearance | Not applicable |
| Matched condition (axial clearance/ preload) | Medium preload |
| Tolerance class | Class P6 (P6) |
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Without |

Logistics

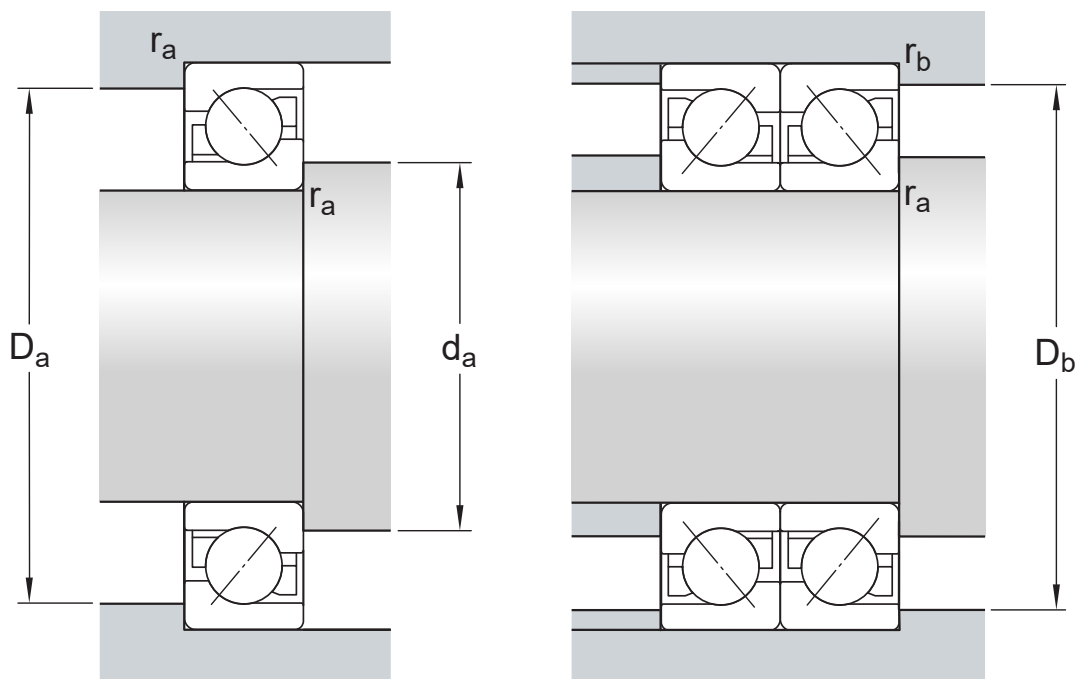
| | |
|--------------------|-------------|
| Product net weight | 0.5988 lb |
| eClass code | 23-05-08-03 |
| UNSPSC code | 31171531 |

Technical specification



Dimensions

| | | |
|------------------|---------------|---|
| d | 1.378 in | Bore diameter |
| D | 2.835 in | Outside diameter |
| B | 0.669 in | Width |
| d ₁ | ≈ 1.955 in | Shoulder diameter of inner ring (large side face) |
| d ₂ | ≈ 1.652 in | Shoulder diameter of inner ring (small side face) |
| D ₁ | ≈ 2.293 in | Shoulder diameter of outer ring (large side face) |
| a | 1.22 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. 1.654 in | Diameter of shaft abutment |
| D_a | max. 2.559 in | Abutment diameter housing |
| D_b | max. 2.669 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 | 6 969 lbf |
| Basic static load rating | C_0 | 4 676 lbf |
| Fatigue load limit | P_u | 198 lbf |
| Reference speed | | 11 000 r/min |
| Limiting speed | | 12 000 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

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

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