



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

## 7206 BECBY

### 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    | 30 mm |
| Outside diameter | 62 mm |
| Width            | 16 mm |
| Contact angle    | 40 °  |

Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 24 kN        |
| Basic static load rating  | 15.6 kN      |
| Reference speed           | 14 000 r/min |
| Limiting speed            | 14 000 r/min |
| SKF performance class     | SKF Explorer |

Properties

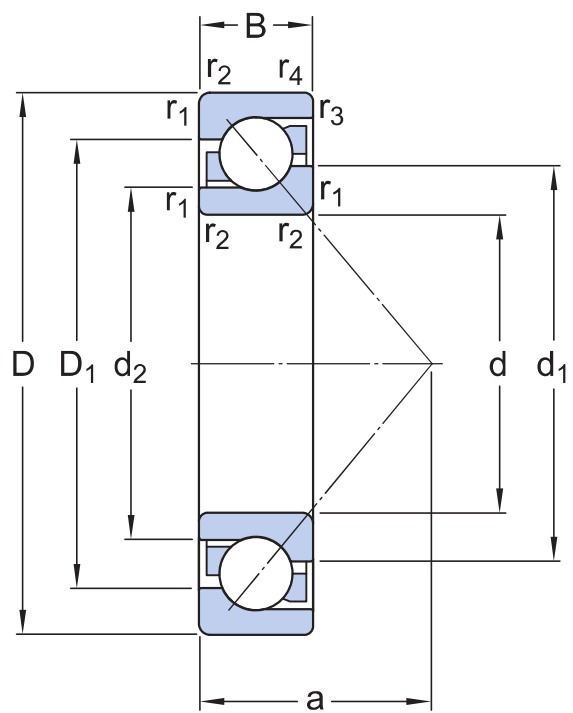
|                                              |                                    |
|----------------------------------------------|------------------------------------|
| Contact type                                 | Normal contact (two-point contact) |
| Number of rows                               | 1                                  |
| Locating feature, bearing outer ring         | None                               |
| Ring type                                    | One-piece inner and outer rings    |
| Cage                                         | Brass 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 | 0.195 kg |
|--------------------|----------|

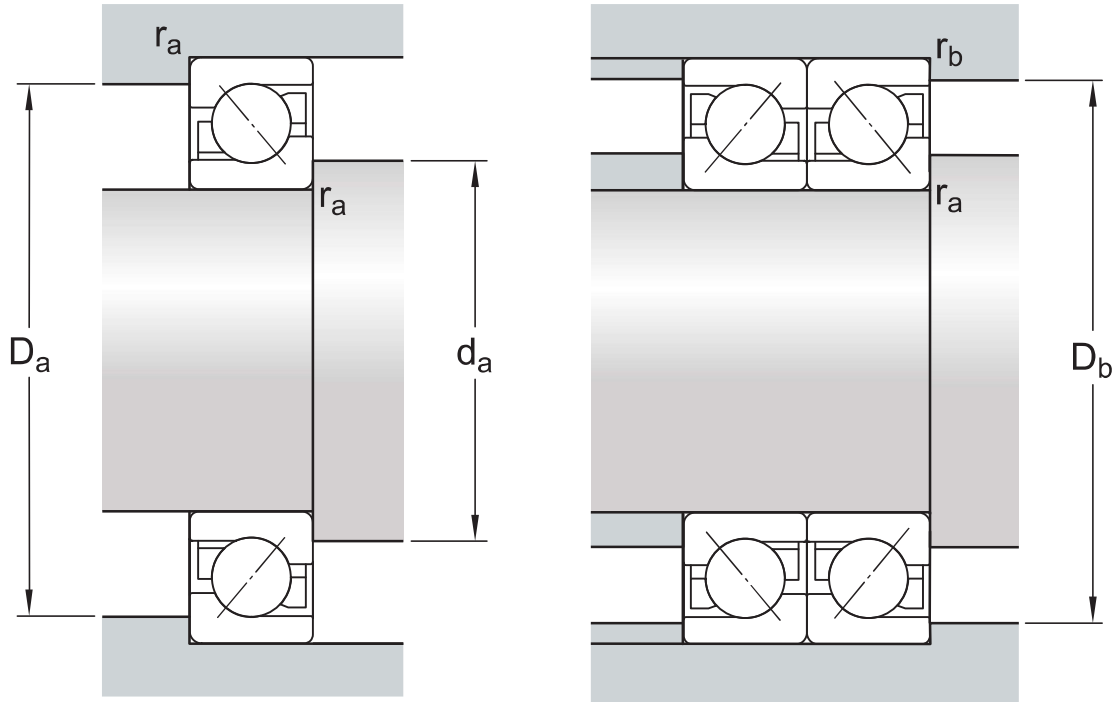
|             |             |
|-------------|-------------|
| eClass code | 23-05-08-03 |
| UNSPSC code | 31171531    |

Technical specification



Dimensions

|                  |             |                                                   |
|------------------|-------------|---------------------------------------------------|
| d                | 30 mm       | Bore diameter                                     |
| D                | 62 mm       | Outside diameter                                  |
| B                | 16 mm       | Width                                             |
| d <sub>1</sub>   | ≈ 42.65 mm  | Shoulder diameter of inner ring (large side face) |
| d <sub>2</sub>   | ≈ 36.13 mm  | Shoulder diameter of inner ring (small side face) |
| D <sub>1</sub>   | ≈ 50.1 mm   | Shoulder diameter of outer ring (large side face) |
| a                | 27.3 mm     | Distance side face to pressure point              |
| r <sub>1,2</sub> | min. 1 mm   | Chamfer dimension                                 |
| r <sub>3,4</sub> | min. 0.6 mm | Chamfer dimension                                 |



Abutment dimensions

|       |              |                              |
|-------|--------------|------------------------------|
| $d_a$ | min. 35.6 mm | Diameter of shaft abutment   |
| $D_a$ | max. 56.4 mm | Abutment diameter housing    |
| $D_b$ | max. 57.8 mm | Diameter of housing abutment |
| $r_a$ | max. 1 mm    | Radius of fillet             |
| $r_b$ | max. 0.6 mm  | Radius of fillet             |

Calculation data

|                            |       |              |
|----------------------------|-------|--------------|
| SKF performance class      |       | SKF Explorer |
| Basic dynamic load rating  | C     | 24 kN        |
| Basic static load rating   | $C_0$ | 15.6 kN      |
| Fatigue load limit         | $P_u$ | 0.655 kN     |
| Reference speed            |       | 14 000 r/min |
| Limiting speed             |       | 14 000 r/min |
| Minimum axial load factor  | A     | 0.00408      |
| Minimum radial load factor | $k_r$ | 0.095        |
| Limiting value             | e     | 1.14         |

## SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

|                                     |       |      |
|-------------------------------------|-------|------|
| Calculation factor (single, tandem) | X     | 0.35 |
| Calculation factor (single, tandem) | $Y_0$ | 0.26 |
| Calculation factor (single, tandem) | $Y_2$ | 0.57 |

## BEARING PAIR ARRANGED BACK-TO-BACK OR FACE-TO-FACE

|                                                 |       |      |
|-------------------------------------------------|-------|------|
| Calculation factor (back-to-back, face-to-face) | X     | 0.57 |
| Calculation factor (back-to-back, face-to-face) | $Y_0$ | 0.52 |
| Calculation factor (back-to-back, face-to-face) | $Y_1$ | 0.55 |
| Calculation factor (back-to-back, face-to-face) | $Y_2$ | 0.93 |

## 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

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