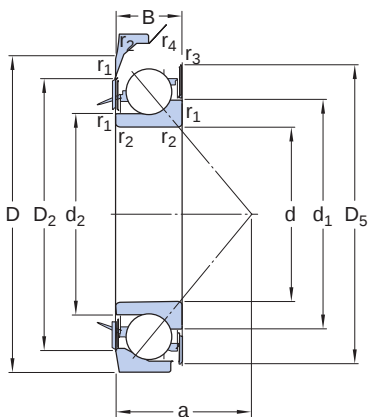


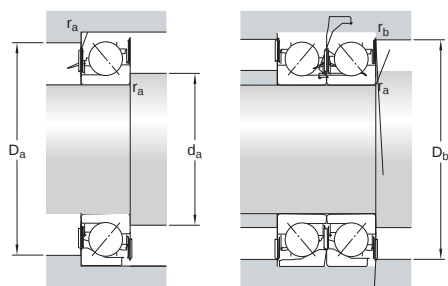
7204 BE-2RZP

These single row angular contact ball bearings, with 40° contact angle and non-contact seals on both sides, accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They have a ball-centred glass-fibre reinforced PA66 cage. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- 40° contact angle
- Integral sealing prolongs bearing service life
- Glass-fibre reinforced PA66 cage
- Accommodate relatively high radial loads and large unilateral axial loads



| Dimensions       |             |                                                   |
|------------------|-------------|---------------------------------------------------|
| d                | 20 mm       | Bore diameter                                     |
| D                | 47 mm       | Outside diameter                                  |
| B                | 14 mm       | Width                                             |
| d <sub>1</sub>   | ≈ 30.85 mm  | Shoulder diameter of inner ring (large side face) |
| d <sub>2</sub>   | ≈ 25.87 mm  | Shoulder diameter of inner ring (small side face) |
| D <sub>2</sub>   | ≈ 37.7 mm   | Recess diameter of outer ring (large side face)   |
| D <sub>5</sub>   | ≈ 43.2 mm   | Recess diameter of outer ring (small side face)   |
| a                | 21 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. 25.6 mm | Diameter of shaft abutment   |
| $d_a$ | max. 30 mm   | Diameter of shaft abutment   |
| $D_a$ | max. 41.4 mm | Abutment diameter housing    |
| $D_b$ | max. 42.8 mm | Diameter of housing abutment |
| $r_a$ | max. 1 mm    | Radius of fillet             |
| $r_b$ | max. 0.6 mm  | Radius of fillet             |

### Calculation data

|                            |       |              |
|----------------------------|-------|--------------|
| Basic dynamic load rating  | C     | 13.3 kN      |
| Basic static load rating   | $C_0$ | 7.65 kN      |
| Fatigue load limit         | $P_u$ | 0.325 kN     |
| Reference speed            |       | 19 000 r/min |
| Limiting speed             |       | 14 000 r/min |
| Minimum axial load factor  | A     | 0.00113      |
| Minimum radial load factor | $k_r$ | 0.095        |
| Limiting value             | e     | 1.14         |

### Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal ( ), 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