



## 7203 BECBM

Popular item  
SKF Explorer

### Angular contact ball bearings, single row

#### Bearing data

[Tolerances](#),

Normal (metric), P6, P5, Normal (inch),

[Internal clearance](#),

CA+CB+CC, G,

[Preload](#),

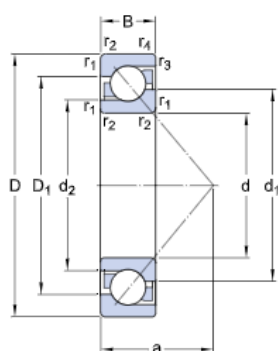
GA+GB+GC

#### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fit](#)

### Technical specification

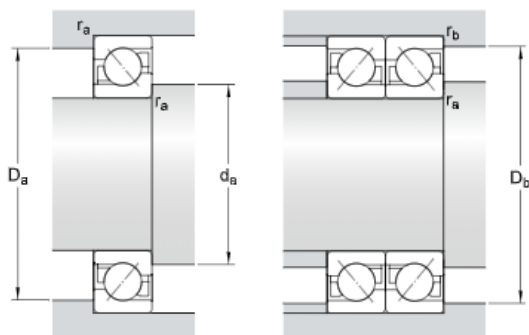


#### DIMENSIONS

|                  |             |
|------------------|-------------|
| d                | 17 mm       |
| D                | 40 mm       |
| B                | 12 mm       |
| d <sub>1</sub>   | ≈ 26.25 mm  |
| d <sub>2</sub>   | ≈ 21.66 mm  |
| D <sub>1</sub>   | ≈ 31.15 mm  |
| a                | 18 mm       |
| r <sub>1,2</sub> | min. 0.6 mm |
| r <sub>3,4</sub> | min. 0.6 mm |

#### ABUTMENT DIMENSIONS

|                |              |
|----------------|--------------|
| d <sub>a</sub> | min. 21.2 mm |
| D <sub>a</sub> | max. 35.8 mm |
| D <sub>b</sub> | max. 35.8 mm |
| r <sub>a</sub> | max. 0.6 mm  |
| r <sub>b</sub> | max. 0.6 mm  |



## CALCULATION DATA

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 11 kN       |
| Basic static load rating  | $C_0$ | 5.85 kN     |
| Fatigue load limit        | $P_u$ | 0.25 kN     |
| Reference speed           |       | 22000 r/min |
| Limiting speed            |       | 28000 r/min |
| Calculation factor        | A     | 0.000625    |
| Calculation factor        | $k_r$ | 0.095       |
| Calculation factor        | e     | 1.14        |

## SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

|                    |       |      |
|--------------------|-------|------|
| Calculation factor | X     | 0.35 |
| Calculation factor | $Y_0$ | 0.26 |
| Calculation factor | $Y_2$ | 0.57 |

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

|                    |       |      |
|--------------------|-------|------|
| Calculation factor | X     | 0.57 |
| Calculation factor | $Y_0$ | 0.52 |
| Calculation factor | $Y_1$ | 0.55 |
| Calculation factor | $Y_2$ | 0.93 |

## MASS

|              |          |
|--------------|----------|
| Mass bearing | 0.065 kg |
|--------------|----------|

## More information

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

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