



# 7307 BEGAPH

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                | 35 mm       |
| D                | 80 mm       |
| B                | 21 mm       |
| d <sub>1</sub>   | ≈ 52.5 mm   |
| d <sub>2</sub>   | ≈ 43.62 mm  |
| D <sub>1</sub>   | ≈ 63.45 mm  |
| a                | 35 mm       |
| r <sub>1,2</sub> | min. 1.5 mm |
| r <sub>3,4</sub> | min. 1 mm   |

## ABUTMENT DIMENSIONS

|                |              |
|----------------|--------------|
| d <sub>a</sub> | min. 44 mm   |
| D <sub>a</sub> | max. 71 mm   |
| D <sub>b</sub> | max. 74.4 mm |
| r <sub>a</sub> | max. 1.5 mm  |
| r <sub>b</sub> | max. 1 mm    |



## CALCULATION DATA

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 41.5 kN     |
| Basic static load rating  | $C_0$ | 26.5 kN     |
| Fatigue load limit        | $P_u$ | 1.14 kN     |
| Reference speed           |       | 11000 r/min |
| Limiting speed            |       | 11000 r/min |
| Calculation factor        | A     | 0.0111      |
| Calculation factor        | $k_r$ | 0.1         |
| 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 | 0.45 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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