



7240 BCBM Angular contact ball bearings, single row

- Popular item

Angular contact ball bearings, single row

Bearing data

[Tolerances](#),

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

[Internal clearance](#),

CA+CB+CC, G,

[Preload](#),

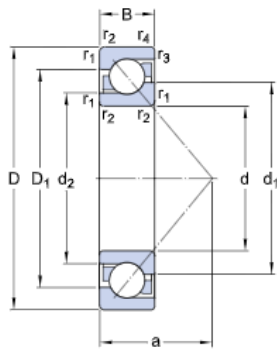
GA+GB+GC

Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fit](#)

Technical specification



DIMENSIONS

| | | |
|------------------|-------------|--|
| d | 200 mm | Bore diameter |
| D | 360 mm | Outside diameter |
| B | 58 mm | Width |
| d1 | ≈ 263.3 mm | Shoulder diameter inner ring (large side face) |
| d2 | ≈ 235.1 mm | Shoulder diameter inner ring (small side face) |
| D1 | ≈ 300.8 mm | Shoulder diameter outer ring (large side face) |
| a | 146 mm | Distance pressure point |
| r _{1,2} | min. 4 mm | Chamfer dimension |
| r _{3,4} | min. 1.5 mm | Chamfer dimension outer ring small side face |

ABUTMENT DIMENSIONS

| | | |
|----------------|-------------|---------------------------|
| d _a | min. 217 mm | Abutment diameter shaft |
| D _c | max. 343 mm | Abutment diameter housing |
| D _i | max. 351 mm | Abutment diameter housing |
| r _a | max. 3 mm | Fillet radius |
| r _b | max. 1.5 mm | Fillet radius |



CALCULATION DATA

| | | |
|----------------|-------------|---------------------------|
| C | 325 kN | Basic dynamic load rating |
| C ₀ | 430 kN | Basic static load rating |
| P _u | 11 kN | Fatigue load limit |
| | 2 000 r/min | Reference speed |
| | 2 400 r/min | Limiting speed |
| A | 3.2 | Calculation factor |
| k _r | 0.08 | Calculation factor |
| e | 1.14 | Calculation factor |

SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

| | | |
|----------------|------|--------------------|
| X | 0.35 | Calculation factor |
| Y ₀ | 0.26 | Calculation factor |
| Y ₂ | 0.57 | Calculation factor |

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

| | | |
|----------------|------|--------------------|
| X | 0.57 | Calculation factor |
| Y ₀ | 0.52 | Calculation factor |
| Y ₁ | 0.55 | Calculation factor |
| Y ₂ | 0.93 | Calculation factor |