

7244 BCBM



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



Dimensions		
d	220 mm	Bore diameter
D	400 mm	Outside diameter
B	65 mm	Width
d ₁	≈ 291.1 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 259.1 mm	Shoulder diameter of inner ring (small side face)
D ₁	≈ 333.55 mm	Shoulder diameter of outer ring (large side face)
a	164 mm	Distance side face to pressure point
r _{1,2}	min. 4 mm	Chamfer dimension
r _{3,4}	min. 1.5 mm	Chamfer dimension



Abutment dimensions		
d _a	min. 237 mm	Diameter of shaft abutment
D _a	max. 383 mm	Abutment diameter housing
D _b	max. 391 mm	Diameter of housing abutment
r _a	max. 3 mm	Radius of fillet
r _b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	390 kN
Basic static load rating	C ₀	560 kN
Fatigue load limit	P _u	13.4 kN
Reference speed		1 900 r/min
Limiting speed		2 200 r/min
Minimum axial load factor	A	5.13
Minimum radial load factor	k _r	0.08
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