



SKF 7330 BCBM

Single row angular contact ball bearing

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.

Technical specifications

Dimensions	
Bore diameter	150 mm
Deviation limits of mid-range bore diameter	-0.018..0 mm
Outside diameter	320 mm
Deviation limits of mid-range outside diameter	-0.028..0 mm
Width	65 mm
Deviation limits of ring width	-0.25..0 mm
Shoulder diameter of inner ring (large side face)	216.1 mm
Shoulder diameter of inner ring (small side face)	183.85 mm
Shoulder diameter of outer ring (large side face)	258.65 mm
Distance side face to pressure point	131 mm
Chamfer dimension	4 mm
Chamfer dimension	1.5 mm
ISO tolerance class for dimensions	P6
Contact angle	40 °

Abutment dimensions	
Diameter of shaft abutment	167 mm
Abutment diameter housing	303 mm
Diameter of housing abutment	311 mm
Radius of fillet	3 mm
Radius of fillet	1.5 mm

Calculation data	
Basic dynamic load rating	332 kN
Basic static load rating	390 kN
Fatigue load limit	10.8 kN
Reference speed	2600 r/min
Limiting speed	3000 r/min
Minimum axial load factor	2.7
Minimum radial load factor	0.09
Limiting value	1.1
Calculation factor (single, tandem)	0.35
Calculation factor (single, tandem)	0.26
Calculation factor (single, tandem)	0.57
Calculation factor (back-to-back, face-to-face)	0.57
Calculation factor (back-to-back, face-to-face)	0.52
Calculation factor (back-to-back, face-to-face)	0.55
Calculation factor (back-to-back, face-to-face)	0.93

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	18 µm
Range of section height at outer ring of assembled bearing	35 µm
ISO tolerance class for geometrical tolerances	P6

Performance	
Basic dynamic load rating	332 kN
Basic static load rating	390 kN

Reference speed	2600 r/min
Limiting speed	3000 r/min

Properties	
Contact type	Normal contact (two-point contact)
Number of rows	1
Locating feature, bearing outer ring	Without
Ring type	One-piece inner and outer rings
Cage	Machined brass
Matched arrangement	No
Universal matching bearing	Yes
Axial internal clearance	Not applicable
Matched condition (axial clearance/ preload)	Axial clearance CB
Tolerance class	Class 6 (P6)
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	86.8 kg CO ₂ e

Logistics	
Product net weight	24.1 kg
eClass code	23-05-08-03
UNSPSC code	31171531

SKF drawings

