



SKF 7232 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	160 mm
Deviation limits of mid-range bore diameter	-0.018..0 mm
Outside diameter	290 mm
Deviation limits of mid-range outside diameter	-0.025..0 mm
Width	48 mm
Deviation limits of ring width	-0.25..0 mm
Shoulder diameter of inner ring (large side face)	211.1 mm
Shoulder diameter of inner ring (small side face)	187.55 mm
Shoulder diameter of outer ring (large side face)	242.3 mm
Distance side face to pressure point	118 mm
Chamfer dimension	3 mm
Chamfer dimension	1.1 mm
ISO tolerance class for dimensions	P6
Contact angle	40 °

Abutment dimensions	
Diameter of shaft abutment	174 mm
Abutment diameter housing	276 mm
Diameter of housing abutment	283 mm
Radius of fillet	2.5 mm
Radius of fillet	1 mm

Calculation data	
Basic dynamic load rating	255 kN
Basic static load rating	300 kN
Fatigue load limit	8.5 kN
Reference speed	2800 r/min
Limiting speed	3200 r/min
Minimum axial load factor	1.5
Minimum radial load factor	0.08
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	30 µm
ISO tolerance class for geometrical tolerances	P6

Performance	
Basic dynamic load rating	255 kN
Basic static load rating	300 kN

Reference speed	2800 r/min
Limiting speed	3200 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	47.9 kg CO ₂ e

Logistics	
Product net weight	13.3 kg
eClass code	23-05-08-03
UNSPSC code	31171531

SKF drawings

