



SKF 7206 BEP

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	30 mm
Deviation limits of mid-range bore diameter	-0.01..0 mm
Outside diameter	62 mm
Deviation limits of mid-range outside diameter	-0.013..0 mm
Width	16 mm
Deviation limits of ring width	-0.12..0 mm
Shoulder diameter of inner ring (large side face)	42.65 mm
Shoulder diameter of inner ring (small side face)	36.13 mm
Shoulder diameter of outer ring (large side face)	50.1 mm
Distance side face to pressure point	27.3 mm
Chamfer dimension	1 mm
Chamfer dimension	0.6 mm
ISO tolerance class for dimensions	Normal
Contact angle	40 °

Abutment dimensions	
Diameter of shaft abutment	35.6 mm
Abutment diameter housing	56.4 mm
Diameter of housing abutment	57.8 mm
Radius of fillet	1 mm
Radius of fillet	0.6 mm

Calculation data	
Basic dynamic load rating	22.5 kN
Basic static load rating	14.3 kN
Fatigue load limit	0.61 kN
Reference speed	14000 r/min
Limiting speed	13000 r/min
Minimum axial load factor	0.004
Minimum radial load factor	0.1
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	13 μm
Range of section height at outer ring of assembled bearing	25 μm
ISO tolerance class for geometrical tolerances	Normal

Performance	
Basic dynamic load rating	22.5 kN
Basic static load rating	14.3 kN

Reference speed	14000 r/min
Limiting speed	13000 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	Non-metallic
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	Not applicable
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	0.68 kg CO ₂ e

Logistics	
Product net weight	0.188 kg
eClass code	23-05-08-03
UNSPSC code	31171531

SKF drawings

