



SKF 7206 BE-2RZP

Single row angular contact ball bearing with 40° contact angle and non-contact

These single row angular contact ball bearings, with 40° contact angle and non-contact seals on both sides, accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They have a ball-centred glass-fibre reinforced PA66 cage. 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
Recess diameter of outer ring (large side face)	51.8 mm
Recess diameter of outer ring (small side face)	57.6 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
Diameter of shaft abutment	42 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	11000 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	11000 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	Seal on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	0.71 kg CO ₂ e

Logistics	
Product net weight	0.196 kg
eClass code	23-05-08-03
UNSPSC code	31171531

