



7206 BE-2RZP

Single row angular contact ball bearing with 40° contact angle and non-contact seals on both sides

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.

- 40° contact angle
- Integral sealing prolongs bearing service life
- Glass-fibre reinforced PA66 cage
- Accommodate relatively high radial loads and large unilateral axial loads

Overview

Dimensions

Bore diameter	30 mm
Contact angle	40 °
Outside diameter	62 mm
Width	16 mm

Performance

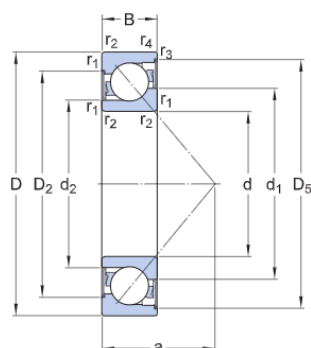
Basic dynamic load rating	22.5 kN
Basic static load rating	14.3 kN
Limiting speed	10 000 r/min
Reference speed	13 000 r/min

Properties

Axial internal clearance	Not applicable
Cage	Non-metallic
Coating	Without
Contact type	Normal contact (two-point contact)
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Relubrication feature	Without
Ring type	One-piece inner and outer rings
Sealing	Seal on both sides

Sealing type	Non-contact
Universal matching bearing	No

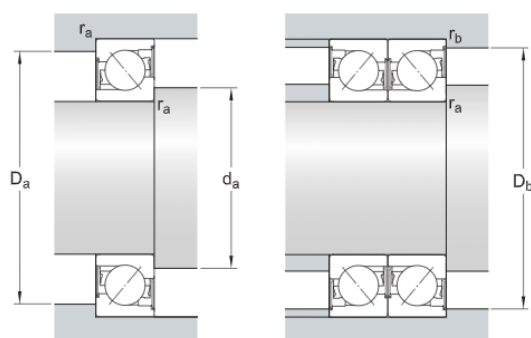
Technical Specification



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d ₁	≈ 42.65 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 36.13 mm	Shoulder diameter of inner ring (small side face)
D ₂	≈ 51.8 mm	Recess diameter of outer ring (large side face)
D ₅	≈ 56.85 mm	Recess diameter of outer ring (small side face)
a	27.3 mm	Distance side face to pressure point
r _{1,2}	min. 1 mm	Chamfer dimension
r _{3,4}	min. 0.6 mm	Chamfer dimension

Abutment dimensions



d _a	min. 35.6 mm	Diameter of shaft abutment
d _a	max. 42 mm	Diameter of shaft abutment
D _a	max. 56.4 mm	Abutment diameter housing
D _b	max. 57.8 mm	Diameter of housing abutment
r _a	max. 1 mm	Radius of fillet
r _b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	22.5 kN
Basic static load rating	C ₀	14.3 kN
Fatigue load limit	P _u	0.61 kN

Reference speed		13 000 r/min
Limiting speed		10 000 r/min
Minimum axial load factor	A	0.00377
Minimum radial load factor	k_r	0.095
Limiting value	e	1.14

Single bearing or bearing pair arranged in tandem

Calculation factor (single, tandem)	X	0.35
Calculation factor (single, tandem)	Y_0	0.26
Calculation factor (single, tandem)	Y_2	0.57

Bearing pair arranged back-to-back or face-to-face

Calculation factor (back-to-back, face-to-face)	X	0.57
Calculation factor (back-to-back, face-to-face)	Y_0	0.52
Calculation factor (back-to-back, face-to-face)	Y_1	0.55
Calculation factor (back-to-back, face-to-face)	Y_2	0.93

Mass

Mass	0.26 kg
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