



7207 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 Performance

Bore diameter	35 mm	Basic dynamic load rating	29.1 kN
Contact angle	40 °	Basic static load rating	19 kN
Outside diameter	72 mm	Limiting speed	9 000 r/min
Width	17 mm	Reference speed	11 000 r/min

Properties

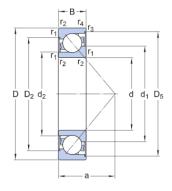
Axial internal clearance	Not applicable
Cage	Non-metallic
Coating	Without
Contact type	Normal contact (two-point contact)
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Relubrication feature	Without
Ring type	One-piece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



Sealing type	Non-contact
Universal matching bearing	No

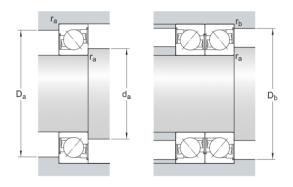


Technical Specification



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
В	17 mm	Width
d_1	≈ 49.65 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 41.96 mm	Shoulder diameter of inner ring (small side face)
D ₂	≈ 59.9 mm	Recess diameter of outer ring (large side face)
D ₅	≈ 65.8 mm	Recess diameter of outer ring (small side face)
a	31 mm	Distance side face to pressure point
r _{1,2}	min. 1.1 mm	Chamfer dimension
r _{3,4}	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d _a min. 42 mm	Diameter of shaft abutment
d _a max. 49 mm	Diameter of shaft abutment
D _a max. 65 mm	Abutment diameter housing
D _b max. 67.8 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	С	29.1 kN
Basic static load rating	C_O	19 kN



Fatigue load limit	P_{u}		0.815 kN
Reference speed			11 000 r/min
Limiting speed			9 000 r/min
Minimum axial load factor	А		0.00674
Minimum radial load factor	k_r		0.095
Limiting value	е		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			0.35 kg



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