



7309 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	45 mm
Contact angle	40 °
Outside diameter	100 mm
Width	25 mm

Performance

Basic dynamic load rating	55.9 kN
Basic static load rating	37.5 kN
Limiting speed	6 700 r/min
Reference speed	8 500 r/min

Properties

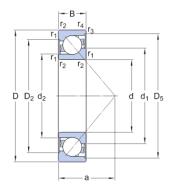
Axial internal clearance	Not applicable
Cage	Non-metallic
Coating	Without
Contact type	Normal contact (two-point contact)
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Relubrication feature	Without
Ring type	One-piece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



Sealing type	Non-contact
Universal matching bearing	No

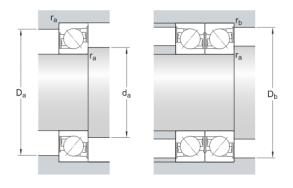


Technical Specification



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
В	25 mm	Width
d_1	≈ 66.5 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 55.25 mm	Shoulder diameter of inner ring (small side face)
D ₂	≈ 81.4 mm	Recess diameter of outer ring (large side face)
D_5	≈ 90.8 mm	Recess diameter of outer ring (small side face)
а	43 mm	Distance side face to pressure point
r _{1,2}	min. 1.5 mm	Chamfer dimension
r _{3,4}	min. 1 mm	Chamfer dimension



Abutment dimensions

d _a min. 54 mm	Diameter of shaft abutment
d _a max. 66 mm	Diameter of shaft abutment
D _a max. 91 mm	Abutment diameter housing
D _b max. 94.4 mm	Diameter of housing abutment
r _a max. 1.5 mm	Radius of fillet
r _b max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	С	55.9 kN
Basic static load rating	C_0	37.5 kN
Fatigue load limit	P_{u}	1.6 kN



Reference speed			8 500 r/min
Limiting speed			6 700 r/min
Minimum axial load factor	А		0.0268
Minimum radial load factor	k _r		0.1
Limiting value	е		1.14
Single bearing or bearing pair arranged in tandem			
Radial load factor (single, tandem)		Χ	0.35
Axial load factor (single, tandem)		Y_0	0.26
Axial load factor (single, tandem)		Y ₂	0.57
Bearing pair arranged back-to-back or face-to-face			
Radial load factor (back-to-back, face-to-face)		Χ	0.57
Axial load factor (back-to-back, face-to-face)		Y_0	0.52
Axial load factor (back-to-back, face-to-face)		Y_1	0.55
Axial load factor (back-to-back, face-to-face)		Y ₂	0.93
Mass			
Mass			0.85 kg



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