

7301 BE-2RZP



NOT FOUND

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	0.472 in
Outside diameter	1.457 in
Width	0.472 in

Performance

Basic dynamic load rating	2 383 lbf
Basic static load rating	1 124 lbf
Limiting speed	20 000 r/min
Reference speed	26 000 r/min

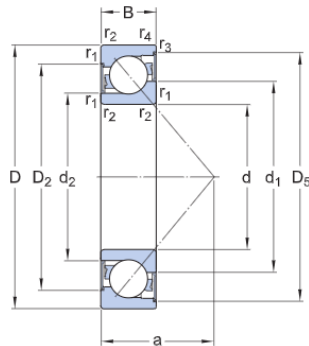
Properties

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

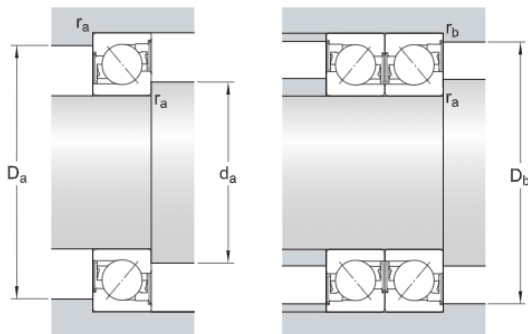
Technical Specification



Dimensions

d	0.472 in	Bore diameter
D	1.457 in	Outside diameter
B	0.472 in	Width
d ₁	≈ 0.862 in	Shoulder diameter of inner ring (large side face)
d ₂	≈ 0.667 in	Shoulder diameter of inner ring (small side face)
D ₂	≈ 1.159 in	Recess diameter of outer ring (large side face)
a	0.642 in	Distance side face to pressure point
r _{1,2}	min. 0.039 in	Chamfer dimension
r _{3,4}	min. 0.024 in	Chamfer dimension

Abutment dimensions



d _a	min. 0.693 in	Diameter of shaft abutment
d _a	max. 0.846 in	Diameter of shaft abutment
D _a	max. 1.236 in	Abutment diameter housing
D _b	max. 1.291 in	Diameter of housing abutment
r _a	max. 0.039 in	Radius of fillet
r _b	max. 0.024 in	Radius of fillet

Calculation data

Basic dynamic load rating	C	2 383 lbf
Basic static load rating	C ₀	1 124 lbf
Fatigue load limit	P _u	47 lbf
Reference speed		26 000 r/min

Limiting speed		20 000 r/min
Minimum axial load factor	A	0.000537
Minimum radial load factor	k_r	0.1
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	0.132 lb
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