7317 BEGAM

Single row angular contact ball bearing

These single row angular contact ball bearings can accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They can operate at high speeds and, depending on the variant, even very high speeds. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- High-speed capability
- Accommodate relatively high radial loads and large unilateral axial loads

Overview

Dimensions

Bore diameter	3.346 in
Outside diameter	7.087 in
Width	1.614 in

Performance

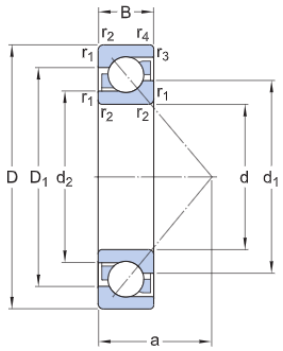
Basic dynamic load rating	35 070 lbf
Basic static load rating	29 675 lbf
Limiting speed	6 000 r/min
Reference speed	4 500 r/min
SKF performance class	SKF Explorer

Properties

Axial internal clearance	Not applicable
Cage	Machined metal
Coating	Without
Contact type	Normal contact (two-point contact)
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Relubrication feature	Without
Ring type	One-piece inner and outer rings
Sealing	Without
Universal matching bearing	Yes

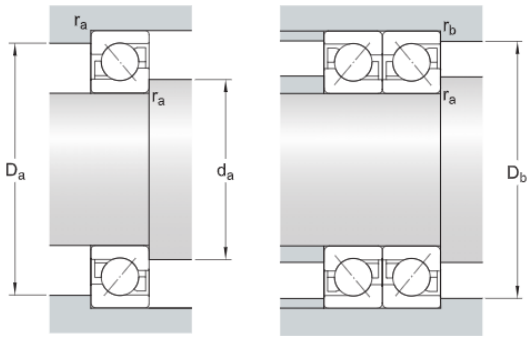
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	3.346 in	Bore diameter
D	7.087 in	Outside diameter
B	1.614 in	Width
d_1	≈ 4.815 in	Shoulder diameter of inner ring (large side face)
d_2	≈ 4.056 in	Shoulder diameter of inner ring (small side face)
D_1	≈ 5.707 in	Shoulder diameter of outer ring (large side face)
a	2.992 in	Distance side face to pressure point
$r_{1,2}$	min. 0.118 in	Chamfer dimension
$r_{3,4}$	min. 0.043 in	Chamfer dimension



Abutment dimensions

d_a	min. 3.898 in	Diameter of shaft abutment
D_a	max. 6.535 in	Abutment diameter housing
D_b	max. 6.811 in	Diameter of housing abutment
r_a	max. 0.098 in	Radius of fillet
r_b	max. 0.039 in	Radius of fillet

Calculation data

Basic dynamic load rating	C	35 070 lbf
Basic static load rating	C_0	29 675 lbf
Fatigue load limit	P_u	1 102 lbf
Reference speed		4 500 r/min
Limiting speed		6 000 r/min
Minimum axial load factor	A	0.27
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	10.185 lb

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