



7236 BCAM

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	7.087 in
Outside diameter	12.598 in
Width	2.047 in

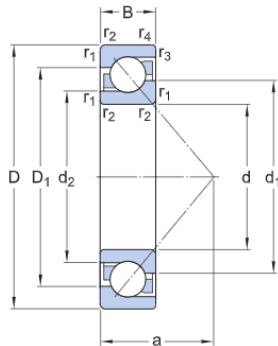
Performance

Basic dynamic load rating	65 419 lbf
Basic static load rating	84 303 lbf
Limiting speed	2 600 r/min
Reference speed	2 400 r/min

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

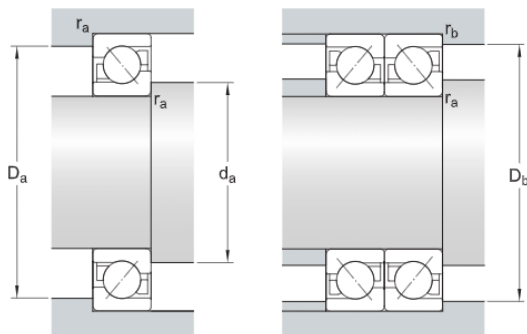
Technical Specification



Dimensions

d	7.087 in	Bore diameter
D	12.598 in	Outside diameter
B	2.047 in	Width
d ₁	≈ 9.248 in	Shoulder diameter of inner ring (large side face)
d ₂	≈ 8.252 in	Shoulder diameter of inner ring (small side face)
D ₁	≈ 10.581 in	Shoulder diameter of outer ring (large side face)
a	5.157 in	Distance side face to pressure point
r _{1,2}	min. 0.157 in	Chamfer dimension
r _{3,4}	min. 0.059 in	Chamfer dimension

Abutment dimensions



d _a	min. 7.756 in	Diameter of shaft abutment
D _a	max. 11.929 in	Abutment diameter housing
D _b	max. 12.244 in	Diameter of housing abutment
r _a	max. 0.118 in	Radius of fillet
r _b	max. 0.059 in	Radius of fillet

Calculation data

Basic dynamic load rating	C	65 419 lbf
Basic static load rating	C ₀	84 303 lbf
Fatigue load limit	P _u	2 248 lbf
Reference speed		2 400 r/min

Limiting speed		2 600 r/min
Minimum axial load factor	A	2.21
Minimum radial load factor	k_r	0.08
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	39.683 lb
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